The Engineer

Tabular Summary of Civil Engineering Contracts, 1950

ON the pages of this Supplement there will be found tables giving some brief particulars of important civil engineering schemes upon which work was proceeding during 1950. Only those schemes for which contracts have already been awarded or are just about to be awarded have been included. The information upon which the tables have been based was obtained from numerous sources and our thanks are particularly due to those Consulting Engineers, Port Authorities, Catchment Boards, &c., who have co-operated with us.

The tables are for the most part self-explanatory. The first column of each table is headed Title of Scheme and/or Purchasing Authority. In many cases the scheme has no distinctive title and the Purchasing Authority is given only; in some the title of the scheme gives an indication of the identity of the body for which the work is being carried out, and the Purchasing Authority is not then entered. Many bodies, such as Catchment Boards and Port Authorities, have their own engineering staffs and employ no consulting engineers. In such cases the body concerned is entered in the second column as the Supervising Authority. In some cases where the chief engineer or other official of the Purchasing Authority has acted in conjunction with the consulting engineers or is himself directing the work his name is entered in italics. The entries under "Nature of Scheme and Notes" are designed to convey an impression of the nature and also the magnitude of the works, but do not necessarily mention more than the more important items. They include reference to any features of particular interest. Sub-contractors are excluded from the "Contractors" column, and only if responsible for a very substantial part of the work are contractors other than those for civil engineering works mentioned. The "Estimated Cost" is that of the complete scheme except where the alignment shows it to be that of one of the component contracts. In the Miscellaneous section, contracts involving mainly building construction have been excluded, unless a large volume of civil engineering development of the site is being undertaken.

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		COAST PROTECTION		£		
HOME						
Newhaven and Seaford Sea Defence Commissioners	Sir William Halcrow & Partners	Strengthening of sea wall, construction of groynes and other works	Demolition & Construction Co., Ltd.	470,000	1946	1950
Folkestone Sea Defences	Ditto	Repair and reconstruction of sea wall, groynes and other works	Ditto	Not yet decided	Sept., 1950	—
Prestatyn Sea Defence Works	Ditto	Construction of piled revetment and groynes ...	Holloway Bros. (London), Ltd.	132,000	June, 1950	June, 1951
Aldeburgh Sea Defences: Borough of Aldeburgh	Lewis & Duvivier	Sheet-piled and r.c. sea walls; heightening and adding apron to existing walls; groynes	R. Robinson & Co. (Contractors), Ltd.	65,000	Jan., 1948	Apr., 1950
St. Margaret's Bay Sea Defences: Dover	Ditto	New sea wall: encasement in r.c. of existing sea walls, steel-piled and r.c. aprons, groynes	Ditto	44,000	Jan., 1951	Mar., 1952
Sea Defences at Eastoke, Hayling Island	Ditto	Breastworks, sea walls and groyning works ...	Ditto	150,000	Apr., 1946	Mar., 1951
Herne Bay Sea Defences	Ditto	Sea walls, groynes and cliff stabilisation	Direct labour	43,000	Nov., 1948	Aug., 1951
Sheringham Sea Defences	Ditto	Underpinning sea wall: construction of groynes, and other works	May, Gurney & Co., Ltd.	45,600	Mar., 1948	Feb., 1951
Southwold Sea Defences	Ditto	Construction and reconstruction of sea walls and groynes	R. Robinson & Co. (Contractors), Ltd.	56,500	Dec., 1947	Oct., 1950
		DRAINAGE AND SEWAGE WORKS				
HOME						
Royal Burgh of Dumbarton: West Drainage	Babtie, Shaw & Morton...	Sewers, 6in to 30in dia., 5000 yards, treatment works and sea outfall	Geo. Wimpey & Co., Ltd.; A. A. Stuart & Sons, (Glasgow), Ltd.	80,000	1949	July, 1951
Imperial Chemical Industries, Ltd.: Dumfries	Ditto	Effluent disposal pipe-line, tidal storage tank and sea outfall	Hugh Leggat, Ltd....	60,000	May, 1950	Dec., 1950
Burgh of Stornoway: Drainage	Ditto	36in dia. intercepting sewer and sea outfall... ...	A. A. Stuart & Sons (Glasgow), Ltd.	46,000	1950	Mar., 1951
Aycliffe Development Corpn.	D. Balfour & Sons... ...	Outfall sewerage and sewage disposal	Delahope, Ltd.... ...	67,000	Jan., 1949	—
Bingley U.D.C.	Ditto	Sewerage and disposal works	Ditto	228,000	Sept., 1950	—
Borough of Kettering ...	Ditto	Main sewerage and disposal works	Adam Eastwood & Sons, Ltd.	93,000	Sept., 1947	—
Harlow Development Corpn.	D. Balfour & Sons and J. D. & D. M. Watson	Middle Lee Regional Scheme: Eastern outfall sewer	W. & C. French, Ltd.	400,000	Oct., 1950	—
Stevenage Development Corpn.	Ditto	Middle Lee Regional Scheme: North-Western outfall sewer	Paterson & Dickenson, Ltd.	100,000	Jan., 1951	—
Stevenage U.D.C.	D. Balfour & Sons... ...	Extensions to disposal works	Ed. Thompson, Ltd.	44,000	May, 1950	—

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		DRAINAGE AND SEWAGE WORKS (*continued*)		£		
HOME						
St. Albans R.D.C.... ...	D. Balfour & Sons... ...	Sewerage at St. Stephen's Parish	P. P. Taylor, Ltd. ...	170,000	Dec., 1950	—
Winslow R.D.C.... ...	Ditto	Various Parishes sewerage and sewage disposal...	Adam Eastwood & Sons, Ltd.	87,000	July, 1949	—
Wycombe R.D.C.	Ditto	Surface water drainage, main sewerage and disposal works	John Mowlem & Co., Ltd.	39,000	Feb., 1949	May, 1950
Barnard Castle R.D.C....	Ditto	Staindrop sewerage and sewage disposal	Delahope, Ltd.... ...	30,500	Jan., 1949	—
Boldon U.D.C.	Ditto	Main sewerage and drainage	Wm. Moss & Sons ...	68,500	July, 1949	—
Crook and Willington U.D.C.	Ditto	Willington sewerage, sewage disposal and drainage	Tarslag, Ltd.	88,500	July, 1949	—
Stanley U.D.C.	Ditto	Main sewerage and sewage disposal	F. M. Willers & Co., Ltd.	200,000	June, 1948	—
Stokesley R.D.C.	Ditto	Sewerage and sewage disposal	A. Robinson (Contractors), Ltd.	48,500	July, 1949	—
Ampthill R.D.C.	Binnie, Deacon and Gourley	12 miles of 15in and smaller sewers and disposal works	George Bell & Sons, Ltd.	105,000	1949	—
Minworth Works	Birmingham Tame and Rea District Drainage Board; *F. C. Vokes*	Reconstruction of 9 acres of bacterial beds; construction of four 80ft dia. humus tanks and other works	Direct labour	356,400	July, 1948	—
Fife C.C.	Blyth & Blyth	Screening chambers and marine outfall	Whatlings, Ltd. ...	140,000	June, 1949	1951
		15,700 yards sewer, 54in to 60in dia.	Whatlings, Ltd.; James Miller & Part., Ltd.; Mathieson Gee (Ayrshire), Ltd.; Holland & Hannen & Cubitts, Ltd.	446,000	Feb., 1949	1952
Hambledon R.D.C.: Chiddingfold Sewerage ...	A. P. I. Cotterell & Son...	5 miles sewers and disposal works	A. Streeter & Co., Ltd.	42,000	July, 1949	Apr., 1950
Ewhurst Sewerage... ...	Ditto	6 miles sewers and extension of disposal works...	R. Holford & Co., Ltd.	43,000	Aug., 1949	Dec., 1950
Neyland U.D.C.	Ditto	5½ miles sewers, treatment works and sea outfall	Hussey, Egan & Pickmere, Ltd.	60,000	Apr., 1947	Oct., 1950
Pewsey R.D.C.	Ditto	3¼ miles sewers and disposal works	W. H. Young (Ackworth), Ltd.	42,500	Jan., 1949	—
Wayland and Swaffham R.D.C.	Ditto	8½ miles of sewers and disposal works...	Harry Pointer (Norwich), Ltd.	62,300	1951	—
Wells - next - the - Sea U.D.C.	Ditto	7 miles sewers and disposal works	M. Maclean	46,000	Mar., 1949	Oct., 1950

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		DRAINAGE AND SEWAGE WORKS (*continued*)		£		
HOME						
Port Glasgow T. C. ...	Crouch and Hogg	Main and outfall sewer	J. Drysdale & Co., Ltd.; J. Woodrow & Sons (Builders), Ltd.	45,000	1946	1951
Colne Valley Sewerage Board	Sandford, Fawcett & Partners	Completion of seven sedimentation and storm water tanks and eight aeration tanks	John Howard & Co., Ltd.	164,000	Nov., 1946	1950
		Main pumping station	Ditto	63,000	Aug., 1946	1950
		Completion of power-house, fuel oil store, &c. ...	G. Percy Trentham & Co., Ltd.	65,000	June, 1946	1950
		Sludge pumping station, twelve final settlement tanks, 4 sludge digestion tanks, channels, &c.	Hussey, Egan & Pickmere, Ltd.	315,000	May, 1946	1950
		Sewers: 2300 yards 36in to 21in dia.; 1000 yards 16in dia. pumping main; pumping station	W. & C. French, Ltd.	56,547	May, 1947	1950
		Pumping mains: 3 miles of 48in dia., in steel; 90ft span pipe bridge, 20ft wide over canal	Ditto	125,000	Dec., 1946	1950
		Sewers: 4200 yards of 66in and 63in dia. ...	A. Waddington & Son, Ltd.	344,750	Oct., 1948	—
		Sludge treatment building, wharf and coal-handling plant	W. & C. French, Ltd.	180,000	Jan., 1949	1951
		Power-house machinery...	National Gas & Oil Engine Co., Ltd.	139,000	Dec., 1945	1951
		Cables and cable-laying, distribution, switch and fuse gear	British Insulated Callender's Cables, Ltd.	56,000	1949	—
		Sewage pumping plant (four contracts)	Hathorn, Davey & Co., Ltd.	69,734	May, 1940	1951
		Sludge drying and handling equipment	Dorr Oliver Co., Ltd.	390,000	Oct., 1948	—
		Administration and maintenance buildings... ...	W. & C. French, Ltd.	107,000	Nov., 1949	—
		Sewers: 6080 yards of 36in to 24in, 2230 yards of 15in to 9in	Howard Farrow, Ltd.	143,147	May, 1949	—
		Sewers: 8230 yards of 36in to 27in	Braithwaite & Co., Engineers, Ltd.	298,522	Aug., 1949	—
		Sewers: 5600 yards of 60in to 45in	Howard Farrow, Ltd.	454,466	Aug., 1949	—
		Sewers: 2980 yards 66in by 55in ovoid, 3180 yards 42in by 39in	A. Waddington & Son, Ltd.	596,320	May, 1950	—
		Sewers: 6070 yards 39in, 30in and 30in dia., 310 yards 15in dia.	Howard Farrow, Ltd.	337,025	Sept., 1950	—
Birkenhead Corporation: Contract No. 1	Ditto	Sewers: 5500 yards of 54in to 9in	Gough Cooper & Co., Ltd.	132,299	Aug., 1949	—
		Sewers: 1020 yards 72in by 69in culvert, 190 yards 54in to 39in dia.	Norwest Construction Co., Ltd.	70,160	Oct., 1950	—

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		DRAINAGE AND SEWAGE WORKS (*continued*)		£		
HOME						
Stoke-on-Trent	Sir Herbert Humphries & McDonald	Sewerage, 6in to 33in, outfall and preliminary works for Newstead Farm housing estate	Not yet let	110,000	1951	1952
Havant and Waterloo U.D.C.	Howard Humphreys & Sons	Trunk sewers	A. Streeter & Co., Ltd.	150,000	Mar., 1950	—
		Disposal works	Campbell & McGill, Ld.	330,000	Mar., 1950	—
		Power house and administration block	Trollope & Colls, Ltd.	36,000	Aug., 1950	—
Wokingham R.D.C. ...	Ditto	Wargrave and Twyford sewers, disposal works, pumping station	W. & C. French, Ltd.	130,000	Sept., 1948	Jan., 1951
Garforth U.D.C.	Ditto	Trunk sewers and disposal works	Wm. Birch & Sons, Ltd.	90,000	Sept., 1948	Jan., 1951
Ploughley R.D.C.	Ditto	Sewers, pumping stations, sewage works at Kidlington	Oxford C.C. (direct labour)	210,000	Apr., 1948	Apr., 1951
Letchworth U.D.C. ...	Ditto	Sewage disposal works	Not yet let	300,000	Mar., 1951	—
Newbury Borough ...	Ditto	Sewage disposal works	A. E. Farr, Ltd. ...	40,000	June, 1950	Sept., 1951
Chichester R.D.C. ...	Ditto	Sewerage, East and West Wittering	Bridgewater Bros., Ltd.	210,000	Jan., 1951	—
Richmond Main Sewerage Board	Ditto	Sewage disposal works	Balfour Beatty & Co., Ltd.; Activated Sludge Co., Ltd.; Harland & Wolff, Ltd.; Hathorn Davey & Co.	684,000	Jan., 1948	—
Ruislip - Northwood U.D.C.	Ditto	Trunk sewers	John Cochrane & Sons, Ltd.	82,000	Jan., 1949	Jan., 1951
Chigwell U.D.C.	Ditto	Extensions to sewage works	W. & C. French, Ltd.	64,000	Oct., 1950	—
Woodstock B.C.	Ditto	Sewers and sewage works	J. L. Rogers & Sons, Ltd.	49,000	Mar., 1948	—
Whiston R.D.C.	Husband & Co.	Main Drainage for Parish of Rainhill	Norwest Constr. Co., Ltd.	197,000	1950	1952
Wortley R.D.C.	Ditto	Roads and services for housing scheme	J. F. Finnegan Ltd.	50,000	1949	1950
Audenshaw U.D.C. ...	G. B. Kershaw & Kaufman	2½ miles sewers, 9in to 39in dia.	C. V. Buchan & Co., Ltd.	88,000	Aug., 1946	Feb., 1950
		2½ miles sewers, 9in to 48in, pumping station and rising main	Neodox, Ltd.	160,000	July, 1947	Feb., 1951

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		DRAINAGE AND SEWAGE WORKS *(continued)*		£		
HOME						
Bebington Corporation...	G. B. Kershaw & Kaufman	4⅝ miles sewers, 15in to 78in dia.	John McGeoch & Sons, Ltd.	205,000	Nov., 1946	Oct., 1950
		8ft dia. sewer, storage tanks and outfall to H.W.M. and 48in outfall to L.W.M.	C. V. Buchan & Sons, Ltd.	318,000	Sept., 1950	1953
		33in dia. outfall (oil dock diversion)	John McGeoch & Sons, Ltd.	32,000	Nov., 1949	Mar., 1951
Denton U.D.C.	Ditto	4½ miles sewers, 7in to 45in, pumping station and rising mains	G. Dew & Co., Ltd.	96,000	Aug., 1946	May, 1951
		2½ miles sewers, 7in to 36in, and extensions to treatment works	John McGeoch & Sons, Ltd.	167,000	Dec., 1947	Apr., 1951
Hale U.D.C.	Ditto	5¾ miles sewers, 9in to 45in, pumping station and rising main	Yarwood's (Altrincham), Ltd.	170,000	Dec., 1947	May, 1951
Hazel Grove and Bramhall U.D.C.	Ditto	4½ miles sewers, 9in to 21in dia.	Wm. Eaves & Co., Ltd.	45,000	June, 1947	Feb., 1951
Norman Cross R.D.C. ...	Ditto	11¼ miles sewers, 7in to 18in, five pumping stations and rising mains	Hadsphaltic Constr. Co., Ltd.	114,000	Oct., 1950	Apr., 1953
Old Fletton U.D.C. ...	Ditto	1⅝ miles sewers, 9in to 36in, two pumping stations and extensions to treatment works	Hussey, Egan & Pickmere, Ltd.	87,000	1951	—
South Kesteven R.D.C.	Ditto	3½ miles sewers, 7in and 9in, three pumping stations and extensions to treatment works	Hadsphaltic Constr. Co., Ltd.	68,000	1951	—
Swinton and Pendlebury Corpn.	Ditto	2½ miles sewers, 9in to 27in, and treatment works	Neodox, Ltd.	142,000	Mar., 1947	May, 1951
Wilmslow U.D.C. ...	Ditto	1⅛ miles sewers, 9in to 30in dia.	Yarwood's (Altrincham), Ltd.	107,000	1951	—
Hebburn U.D.C.: Main Outfall Sewer	Eric G. Lediard	3400 yards 36in and 21in dia. sewer, outfall into River Tyne	Gustavus Bailey & Co., Ltd.	75,000	June, 1948	Dec., 1950
		1700 yards 21in and 18in sewer	Alex Anderson (Contractors), Ltd.	30,000	Sept., 1950	Oct., 1951
Billingham U.D.C. ...	Ditto	Roads, sewers, surface water drains, street lighting, &c.	Messrs. Ryan (Newcastle), Ltd.	70,000	Feb., 1950	Feb., 1951
		Roads, sewers, surface water drains, street lighting, &c.	Not yet let	103,000	Jan., 1951	Mar., 1952
Castle Ward R.D.C. ...	Ditto	Roads, sewers, surface water drains, &c.	C. S. Bunch & Sons, Ltd.	63,000	Jan., 1951	Mar., 1953
N.E. Trading Estates, Ltd.	Ditto	Site earthworks, underdrainage, roads and substation at Castleside Trading Estate	Alston Limestone Co., Ltd.	40,000	Nov., 1948	Nov., 1950
Chelmsford R.D.C. ...	Lemon & Blizard ...	18in to 7in dia. sewers and pumping station ...	Intrade, Ltd.; Adams Hydraulics, Ltd.	50,000	July, 1948	Dec., 1950
Cosford R.D.C.	Ditto	9in to 7in sewers, disposal works and pumping station	Edward Thompson, Ltd.; Adams Hydraulics, Ltd.	39,000	Feb., 1949	Dec., 1950
Cirencester U.D.C. ...	Ditto	27in dia. outfall sewer and disposal works	Adam Eastwood & Sons, Ltd.	65,000	June, 1948	1951

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		DRAINAGE AND SEWAGE WORKS *(continued)*		£		
HOME						
Warminster U.D.C. ...	Lemon & Blizard	Sewage disposal works	A. E. Farr, Ltd. ...	54,000	1949	Dec., 1950
Hawick T.C.	J. & A. Leslie & Reid ...	Sewage purification works	Struthers & Denny; Thatcher Lucas & Co., Ltd.	65,000	June, 1947	1951
Bonny Water Purification	Ditto	Sewers, 27in to 9in	A. Somerville Co., Ltd.	42,000	Sept., 1949	1951
Bo'ness T.C.	Ditto	Sewers, 33in to 9in	R. J. Macleod; Casey & Darragh	38,000	Dec., 1949	1951
Lanark T.C.	Ditto	Sewage purification works	Thatcher Lucas & Co., Ltd.	57,000	Dec., 1950	1952
Northern Outfall Works, Beckton, E.6	London County Council ..	Conversion of an old reservoir to digestion compartments with gas-powered pump-house	Crowley, Russell & Co., Ltd.	128,000	May, 1949	Feb., 1951
		Four detritus pits and other works	Ditto	228,200	Mar., 1950	Aug., 1952
		Sixteen sedimentation tanks, screen and pump-houses, &c.	Edmund Nuttall, Sons & Co., Ltd.	1,311,400	Oct., 1950	Mar., 1953
Southern High-Level Sewer	Ditto	1420 yards of 5ft 6in dia. brick sewer—extension of Frogmore sewer to Southfields	Paterson & Dickinson, Ltd.	100,000	Nov., 1949	May, 1951
Walham Green Storm Relief Sewer	Ditto	680 yards of 5ft 3in dia. sewer	Charles Brand & Son, Ltd.	75,000	Nov., 1950	Aug., 1951
City of Hereford	L. G. Mouchel & Partners, Ltd.	Sewage disposal works	M. J. Gleeson, Ltd.; Tarmac, Ltd.	400,000	July, 1948	June, 1952
Billesdon R.D.C.	Pick, Everard, Keay & Gimson	5 miles sewers, 15in to 6in dia., pumping station and disposal works	J. B. Hill, Ltd. ...	36,000	Mar., 1949	—
Market Bosworth R.D.C.	Ditto	4 miles sewers, 12in to 6in dia., disposal works...	Orton & Dalby, Ltd.; A.F. Carr & Co.,Ltd.	35,000	Feb., 1949	—
Kettering R.D.C.	Ditto	13 miles sewers, 15in to 6in dia., and four disposal works	Walter G. Birch, Ltd.; J. B. Hill, Ltd.; W. Ambery	93,000	Mar., 1949	—
Deben R.D.C.	Ditto	3½ miles sewers, 12in to 6in dia., pumping station and disposal works	C. Williamson & Co., Ltd.	36,000	June, 1948	Nov., 1950
Daventry R.D.C.	Ditto	18 miles sewers, 15in to 6in dia., disposal works...	Kottler & Heron, Ltd. Bosworth & Wakeford, Ltd.; K. E. Millard & Co., Ltd.	115,000	June, 1947	—
Corpn. of Chatham ...	W. H. Radford & Son ...	8 miles sewers, 9in to 36in dia.	Mears Bros. (Contractors), Ltd.	145,000	May, 1949	Nov., 1950
Thurrock U.D.C.	Ditto	Stifford sewage pumping station	Daniel T. Jackson, Ltd.	85,000	1947	July, 1950
		Sewer, 4000 yards, 42in and 36in	W. & C. French, Ltd.	140,000	Dec., 1948	June, 1950

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		DRAINAGE AND SEWAGE WORKS *(continued)*		£		
HOME						
Thurrock U.D.C.	W. H. Radford & Son ...	24in dia. pressure pipe-lines, 8230 yards	W. & C. French, Ltd.	33,000	May, 1949	—
Matlock U.D.C.	Ditto	Bonsall sewerage, 3½ miles, 12in to 7in sewers, &c.	P. P. Taylor (Doncaster), Ltd.	42,000	July, 1949	—
Thorne R.D.C.	Ditto	Additions to Hatfield pumping station, 1¼ miles 12in pumping main and 1000 yards 18in to 12in c.i. sewers	Ditto	32,500	Dec., 1950	—
Spalding R.D.C.	Silcock & Simpson ...	Sewerage, pumping stations and disposal works, Crowland	Harold Hirst & Son...	53,000	Aug., 1947	June, 1951
North Kesteven R.D.C....	Ditto	Sewerage and sewage disposal, North Hykeham and Waddington	Gleeson, Ltd.; Adams Hyd., Ltd., and others	142,800	1950	1952
Ely R.D.C.	Ditto	Sewerage, pumping station, disposal works, Littleport	Harold Hirst & Son...	48,000	Aug., 1948	June, 1951
Brixham U.D.C.	Ditto	Sewers, pumping station and disintegrating station	Not yet let	50,000	1951	—
Welton R.D.C.	Ditto	Sewers and sewage disposal works, Bardney ...	Ditto	46,000	Apr., 1951	Apr., 1952
Bideford Corpn.	F. W. S. Stanton	1½ miles sewers, 9in to 39in, and outfall	Richard Costain, Ltd.	47,000	May, 1948	—
Strood R.D.C.	Ditto	7 miles sewers, 6in to 15in, pumping stations, treatment works and outfall	Walter Smith (Public Works), Ltd.	66,000	June, 1948	—
Bridge-Blean R.D.C. ...	Ditto	5½ miles sewers, 7in to 15in, treatment works and outfall	J. W. Ellingham, Ltd.	73,000	Oct., 1948	—
Rimrose Brook Drainage	John Taylor & Sons ...	Sewers and pumping station	Norwest Constr. Co., Ltd.	472,000	Oct., 1950	—
Gloucester Corpn.	Ditto	Main sewers	Marples-Ridgway & Partners, Ltd.	330,000	Feb., 1951	—
Eastern Valleys (Mon) Joint Sewerage Board and Others	Ditto	Main sewer in Avon Llwyd Valley, subsidiary sewers and treatment works	Paterson & Dickinson, Ltd.; Willment Bros., Ltd.; William Bowers, Ltd.; Sir Robert McAlpine & Sons, Ltd.	570,000	Apr., 1949	—
Warrington Corpn. ...	Ditto	Pumping station, rising main; main sewers in Sankey Valley	Willment Bros., Ltd.; Hodgson Bros.	247,000	Apr., 1949	—
Crawley Development Corpn.	Ditto	Sewerage and sewage treatment works of New Town	Gilbert-Ash, Ltd.; Cementation Co., Ltd.; Howard Farrow, Ltd.; Lavender, McMillan, Ltd.	245,000	Apr., 1949	—

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		DRAINAGE AND SEWAGE WORKS (*continued*)		£		
HOME						
Folkestone Corpn. ...	John Taylor & Sons ...	Sewers and sea outfall	Kirk & Kirk, Ltd.; Campbell & McGill, Ltd.	80,000	Sept., 1949	July, 1951
Alton R.D.C.	Ditto	Sewers	Kirk & Kirk, Ltd. ...	75,000	Sept., 1949	Sept., 1951
Harwich Corpn.	Ditto	Sewers and sewage treatment works	Campbell & McGill, Ltd.	65,000	Nov., 1947	Oct., 1950
Marlborough and Ramsbury R.D.C.	Ditto	Sewers, pumping station and treatment works ...	Hadsphaltic Construction Co., Ltd.	60,000	Oct., 1948	Mar., 1951
Midhurst R.D.C. ...	Ditto	Drainage of Harting and Cocking	Cementation Co., Ltd.; Willment Bros. Ltd.	50,000	1948–49	Feb., 1951
Caernarvon B.C.	J. D. & D. M. Watson ...	Sewerage	Howard Farrow, Ltd.	42,000	Jan., 1950	Jan., 1951
Chesterfield B.C.	Ditto	Southern area main drainage	Robt. McGregor & Sons, Ltd.	61,000	1951	—
Dunmow R.D.C.	Ditto	Sewerage and sewage disposal	St. Mary's Demolition & Constr. Co., Ltd.; Boyd Gibbins	99,000	1951	—
Middlesex C.C.	Ditto	East Middlesex main drainage, storm water tanks	W. & C. French, Ltd.	181,000	Apr., 1948	June, 1951
Epping U.D.C.	Ditto	Sewage disposal works	Ditto	41,000	Oct., 1949	—
Godalming B.C.	Ditto	Sewage disposal	—	94,000	1951	—
Luton B.C.	Ditto	Sludge disposal plant; micro-strainer and filter plant	H. C. Janes, Ltd. ...	55,000	Jan., 1949	—
			Glenfield & Kennedy, Ltd.		Aug., 1949	—
			Candy Filter Co., Ltd.		Jan., 1949	—
North Walsham U.D.C.	Ditto	Extensions to disposal works	M. McLean	35,000	1951	—
Oswestry B.C.	Ditto	Sewage disposal	—	210,000	1951	—
Peterborough C.C.... ...	Ditto	Sewerage and disposal works	Kottler & Heron, Ltd.; Holland & Hannen & Cubitts, Ltd.; and others	499,500	Nov., 1946	1950
Plymouth C.C.	Ditto	Sewage works extensions	Direct labour	143,000	Jan., 1950	—
Romford and Hornchurch Joint Sewerage	Ditto	Sewage disposal works	W. & C. French, Ltd.	99,000	—	—
Rugby R.D.C.	Ditto	Sewers and disposal works	Alfred Robinson, Ltd., and others	98,000	July, 1950	—
Sutton - in - Ashfield U.D.C.	Ditto	Sewerage and sewage disposal	Not yet let	108,000	1951	—

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		DRAINAGE AND SEWAGE WORKS *(continued)*		£		
HOME						
Sodbury R.D.C.	J. D. & D. M. Watson ...	Sewerage	W. A. Dawson, Ltd.; Turriff Constr. Corpn., Ltd., and others	380,000	1950	—
		Sewage disposal works	C. A. Hayes & Sons, Ltd.	114,000	1950	—
Tipton B.C.	Ditto	Sewerage	Not yet let	225,000	1951	—
Trowbridge U.D.C. ...	Ditto	Sewerage	Ditto	34,500	1951	—
Warwick R.D.C.	Ditto	Sewerage and disposal works	Costelloe & Kemple, Ltd., and others	159,000	June, 1950	—
Yeovil B.C.	Ditto	Sewerage	Not yet let	208,000	1951	—
ABROAD						
Livingstone Sewerage (Northern Rhodesia)	Brian Colquhoun & Partners (Rhodesia)	Sewerage scheme for Municipality	—	92,000	Dec., 1950	Dec., 1951
Dar es Salaam	Howard Humphreys & Sons	Sewerage	M. Gonella & Co., Ltd.	300,000	Dec., 1950	June, 1953
Castries, B.W.I.	Ditto	Sewerage	Holland, Hannen & Cubitts	111,000	Sept., 1949	1951
Anglo-Iranian Oil Co.,	J. D. & D. M. Watson ...	Sewers, pumping stations and outfall at Abadan...	Direct labour	1,500,000	1943	—
		HARBOURS AND DOCKS				
HOME						
Fairfield Shipbuilding & Eng. Co., Ltd.	Babtie, Shaw & Morton	Reconstruction of head of dock, Glasgow	Melville, Dundas & Whitson, Ltd.	39,000	Dec., 1950	Dec., 1951
Queen's Quay...	Belfast Harbour Commissioners	Repairs and reconstruction, new frontage at north end, increasing depth of water	Direct labour	140,000	Mar., 1949	1951
Abercorn Basin	Ditto	Increasing depth of water	Ditto	57,500	1951	—
Spencer Dock Entrance	Ditto	Deepening and strengthening north wall	Ditto	35,000	1951	—
Musgrave Channel, Delivery Wharf	Ditto	Demolishing existing timber wharf and constructing r.c. wharf	McLaughlin & Harvey, Ltd.	36,000	Oct., 1950	1951
Swan, Hunter and Wigham Richardson, Ltd.	T. F. Burns and Partners	Wallsend Yard: reconstruction of entrance No. 1 dry dock, 76ft by 26ft over sill at H.W.O.S.T.	Holland and Hannen and Cubitts, Ltd.	180,000	Apr., 1948	Feb., 1950
		Wallsend Yard: extension of jetty	Ditto	40,000	Nov., 1948	June, 1950
		Neptune Yard: reconstruction of jetty	Ditto	80,000	Mar., 1949	Feb., 1950

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		HARBOURS AND DOCKS *(continued)*		£		
HOME						
Smiths Dock Co., Ltd....	T. F. Burns & Partners	Dry dock, 700ft long, at North Shields	Holloway Bros. (London), Ltd.	60,000	Dec., 1950	June, 1953
Riverside Wall, Plantation Quay	Clyde Navigation Trust	Reconstruction across ferry recess of quay wall founded on compressed air caissons	Geo. Wimpey & Co., Ltd.	59,800	July, 1948	June, 1950
King George V Dock ...	Ditto	120ft span single-storey goods sheds, road and rail facilities	Direct labour and others	220,000	Oct., 1948	1951
		Widening roadway, 3½ acres of paved storage ...	Direct labour	160,000	May, 1950	1952
Merklands Animals Lairage	Ditto	Partial reconstruction of buildings	Direct labour & others	47,000	Apr., 1950	1951
Renfrew and Shieldhall Lands	Ditto	1 mile of new road, 30ft to 42ft carriageways; 1½ miles of sewers, 24in to 6in; and pumping station	J. Drysdale & Co., Ltd.; Adams-Hydraulics, Ltd.	73,000	Oct., 1950	1952
Cargo Quay, Weymouth	Coode, Vaughan-Lee, Frank and Gwyther	Demolition of timber cargo stage and construction of mass concrete quay wall, 495ft long	Wilson Lovatt & Sons, Ltd.	74,000	Sept., 1948	Apr., 1951
St. Helier's Harbour, Jersey	Ditto	Reconstruction of cross berth and cargo shed at Victoria Pier	Sir Lindsay Parkinson & Co., Ltd.	64,000	Oct., 1949	Apr., 1951
Charles Connell & Co., Ltd.	Crouch & Hogg	Craneway and extension, Scotstoun Shipyard ...	T. Gebbie & Co., Ltd.	40,000	Mar., 1949	1951
Ilfracombe U.D.C. ...	Deane & Mason	Reconstruction of old timber pier	A. E. Farr, Ltd. ...	50,000	Sept., 1949	June, 1951
Newport Docks	Docks and Inland Waterways Executive	Improved facilities for discharging iron ore, East Quay, South Dock	Stothert & Pitt, Ltd.	119,250	Dec., 1948	—
Port Talbot Docks ...		Extension of Margam Wharf	Sir Robert McAlpine & Sons (South Wales), Ltd.	92,000	Feb., 1949	—
		New pumping station	Ditto Sulzer Bros., Ltd.	100,000	May, 1950	—
Humber Ports: Albert Dock	Ditto	Repair of warehouses 17 and 26 (war damage)	Direct labour	41,320	Feb., 1948	July, 1950
Salt End		Additional facilities for dealing with oil traffic ...	Ditto	63,470	Aug., 1947	Nov., 1950
King George Dock ...		Widening of roadway on No. 1 quay	Ditto	36,050	Oct., 1950	—
		Reconstruction of No. 12 quay	Ditto	208,910	—	—
Alexandra Dock ...		Improvements to "C" jetty	Ditto	36,442	Dec., 1950	—
Immingham Dock ...		Removal of works for new fertiliser factory ...	Ditto	32,629	Nov., 1946	Oct., 1950
Southampton Docks ...	Docks and Inland Waterways Executive: *J. H. Jellett*	New passenger terminal at Ocean Dock: General building	Staverton Builders, Ltd.	275,411	Feb., 1949	July, 1950

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		HARBOURS AND DOCKS (*continued*)		£		
HOME						
Southampton Docks ...	Docks and Inland Waterways Executive: *J. H. Jellett*	Terminal at Ocean Dock: Internal fittings ...	Maple & Co., Ltd. ...	145,349	June, 1949	July, 1950
		Mechanical gangways	Structural & Mechanical Development Engineers, Ltd.	30,000	June, 1949	July, 1950
		Reconstruction of No. 42 jetty	Reed & Mallik, Ltd....	96,042	Jan., 1948	July, 1950
Fleetwood Docks: Wyre Dock	Railway Executive ...	Lowering of sills, deepening of Fish Dock passage	Not yet placed	102,000	1951	—
London Area	Docks and Inland Waterways Executive	Steel and concrete piling	Leonard Fairclough, Ltd.	41,058	July, 1950	—
River Severn	Ditto	Bends improvement; steel pile retaining wall ...	Demolition & Construction Co., Ltd.	35,000	Oct., 1949	May, 1950
New Lock, Newark-on-Trent	Ditto	Construction of lock and ancillary works	Chas. Brand & Son, Ltd.	64,000	Dec., 1950	—
Greenwell & Co., Ltd., Sunderland	Sir William Halcrow & Partners	Reconstruction of No. 1 dry dock; extension of No. 2 dry dock and fitting out quay	Demolition & Construction Co., Ltd.; Vickers - Armstrongs, Ltd.	530,000	May, 1950	1952
Hawthorn, Leslie & Co., Ltd., Hebburn - on - Tyne	R. T. James & Partners	New shipbuilding jetties and berths and new workshop	Harbour & General Works, Ltd.; Turriff Constr. Corpn., Ltd.; Brims & Co., Ltd.	117,000	1947	1950
Parsons Marine Steam Turbine Co.	Ditto	R.C. and steel piled quay	Geo. Wimpey & Co., Ltd.	110,000	1948	1950
Edinburgh Dock, South Quay	Leith Dock Commission: *M. White*	Railways, sidings, &c.; shed alterations	Direct labour; Redpath Brown & Co., Ltd., and others	168,000	Dec., 1949	Dec., 1951
Navigation Lights... ...	Ditto	R.C. lighthouse, steel towers and lighthouse equipment	Direct labour; Holloway Bros.(London), Ltd.; and others	50,000	July, 1950	Oct., 1951
Albert Wharf	Ditto	Railway sidings, cranes, &c.	Direct labour; Stothert & Pitt, Ltd.; Johnson & Phillips, Ltd.	51,500	Jan., 1951	Dec., 1951
New Deep Water Quays, Leith: Joseph Rank, Ltd.	Leith Dock Commission & L. G. Mouchel & Partners, Ltd.	1024ft quay walls, caisson construction, and reclamation behind quay walls	Holloway Bros. (London), Ltd.	600,000	Apr., 1947	1951
Eastham Oil Dock ...	Manchester Ship Canal Company	Civil engineering works	Sir Alfred McAlpine and Son, Ltd.	4,000,000	Oct., 1949	—
		Sliding caissons	Vickers - Armstrongs, Ltd.			

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		HARBOURS AND DOCKS (*continued*)				
HOME				£		
Eastham Oil Dock ...	Manchester Ship Canal Company	Additional oil pipe-lines from Stanlow oil docks to the oil companies' sites	Wm. Press and Son, Ltd.	40,000	Sept., 1949	—
C. H. Bailey, Ltd. ...	Maunsell, Posford & Pavry	Reconstruction of dry dock at Barry, South Wales	John Howard & Co., Ltd.	160,000	1950	1951
Assoc. Ethyl Co.	Ditto	Wharf for new factory, Ellesmere Port	Geo. Wimpey & Co....	90,000	1950	1951
Langton-Canada Docks Improvements	Mersey Docks and Harbour Board	First phase of major scheme for new river entrance lock 825ft by 130ft and other works	Direct labour	4,080,860	May, 1949	—
	Ward, Ashcroft and Parkman	Diversion of Millers Bridge sewer...	Norwest Construction Co., Ltd.	126,686	Feb., 1950	—
	Mersey Docks and Harbour Board	Caissons for new river entrance lock and Canada-Brocklebank Passage	Sir William Arrol & Co., Ltd.	1,003,500	1951	—
Training Banks	Ditto	Training walls in sea channel approaches ...	Direct labour	3,275,651	July, 1923	—
Alexandra Dock	Ditto	Construction of dockside shed, 1000ft double storey, 600ft single storey ; semi-portal cranes and transporters (war damage)	Direct labour & others	612,976	Dec., 1946	Apr., 1950
Alexandra Branch Dock No. 3	Ditto	Construction of single-storey dockside shed, portal cranes (war damage)	Ditto	582,750	Oct., 1949	Aug., 1951
Bidston Dock...	Ditto	Strengthening & surfacing quay, railway lines, &c.	Direct labour	400,000	Apr., 1950	—
Canada Branch Dock No. 1	Ditto	Construction of single-storey dockside shed, roof cranes (war damage)	Direct labour & others	321,350	Mar., 1950	Aug., 1951
Wallasey Impounding Station	Ditto	Installation of four turbine pumps, new pump-house, &c.	Ditto	229,637	1952	—
Harrington Dock	Ditto	Restoration of quay wall and shed	Direct labour	224,872	June, 1949	1952
West Float	Ditto	Construction of single-storey dockside shed, portal cranes	Direct labour & others	211,300	June, 1949	Aug., 1951
Canada Branch Dock No. 2	Ditto	Construction of single-storey dockside shed, portal cranes (war damage)	Ditto	174,310	Apr., 1948	Apr., 1950
Canada Branch Dock No. 3	Ditto	Construction of single-storey dockside shed, portal cranes (war damage)	Ditto	147,837	Sept., 1948	Jan., 1950
Gladstone Branch Dock No. 2	Ditto	Reinstatement of ground and first floors, of r.c. shed (fire damage)	Peter Lind & Co., Ltd.	132,813	Aug., 1950	Aug., 1951
Landing Stage, Liverpool	Ditto	Provision of new floating roadway, 551ft long, 30ft wide	Direct labour ; Sir Wm. Arrol & Co. Ld.	109,808	Oct., 1951	Mar., 1952
Wellington Dock	Ditto	Construction of single-storey dockside shed (war damage)	Direct labour & others	69,500	Nov., 1949	June, 1951
Alexandra Branch Dock No. 2	Ditto	Reconstruction of section of shed (war damage)...	Direct labour; Robertson Building Service	64,659	Aug., 1948	Aug., 1950
Gladstone Dock	Ditto	Repairs to r.c. treble-storey sheds	Peter Lind & Co., Ltd.	63,981	Nov., 1948	Apr., 1950

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		HARBOURS AND DOCKS (*continued*)				
HOME				£		
Canada Branch Dock No. 3	Mersey Docks & Harbour Board	Reconstruction of sections of shed (fire damage)...	Direct labour & others	63,000	Nov., 1950	Apr., 1951
Trafalgar Dock	Ditto	Raising level of quay and reconstruction of section of shed	Ditto	38,720	Feb., 1950	Aug., 1951
Birkenhead Grain Warehouses	Ditto	Repairing portion of quay wall (war damage) ...	Direct labour	31,871	Feb., 1950	Aug., 1951
Peterhead Harbour ...	G. Gordon Nicol	Widening South entrance; reconstruction of graving dock and other works	YorkshireHennebique Contracting Co., Ltd.; Sir William Arrol & Co. Ltd.	150,000	Apr., 1950	May, 1952
London & Thames Haven Oil Wharves, Ltd.	L. G. Mouchel & Partners, Ltd., and T. C. Rolland	Construction of jetty	John Mowlem & Co., Ltd.	270,000	Aug., 1950	1952
Prince's Wharf, Bristol...	Port of Bristol Authority	Construction of transit sheds and reconstruction of wharf	R. Watson & Co., Ltd.	140,000	Sept., 1948	Feb., 1951
Royal Edward Dock ...	Ditto	Five 5-ton grab cranes and strengthening quay...	Ditto	95,000	Sept., 1950	July, 1952
Docks Trading Estate ...	Ditto	Improvement of existing roads and drainage ...	Intrade, Ltd.	31,000	Jan., 1949	May, 1950
		Railway sidings	Contract and direct labour	44,000	Jan., 1950	Sept., 1951
Royal Edward Dock ...	Ditto	Reconstruction of ground floor of cold store... ...	W. A. Taylor, Ltd. ...	65,000	Dec., 1949	Dec., 1951
Railways, Avonmouth Dock	Port of Bristol Authority	Provision of sorting grid and additional sidings...	Contract and direct labour	49,000	Sept., 1949	Sept., 1951
Royal Edward Dock ...	Ditto	Provision of road and rail facilities	Ditto	50,000	Jan., 1951	Sept., 1952
Locomotive shed	Port of Bristol Authority and Rendel, Palmer & Tritton	Construction of new shed and access	Not yet placed ...	82,000	Feb., 1951	Feb., 1952
Portishead Dock	Port of Bristol Authority	Reconstruction for new factory and power station extension	Contract and direct labour	70,000	Sept., 1950	Dec., 1951
London Dock	Port of London Authority	Repairs to warehouse	Higgs & Hill, Ltd. ...	70,000	Dec., 1949	—
		Repairs to shed	John Mowlem & Co., Ltd.	40,000	Dec., 1949	—
		Repairs to warehouse	Ditto	86,400	Jan., 1950	—
		Construction of shed and repairs to quay	Higgs & Hill, Ltd. ...	69,000	Jan., 1950	—
		Reconstruction of warehouse	Holloway Bros. (Ldn), Ltd.	67,000	Apr., 1950	—
Surrey Commercial Docks	Ditto	Repairs to timber sheds...	Walker Bros., Ltd. ...	53,000	Nov., 1948	Oct., 1950

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		HARBOURS AND DOCKS (*continued*)		£		
HOME						
Surrey Commercial Docks	Port of London Authority	Repairs to timber sheds...	Walker Bros., Ltd. ...	53,000	May, 1950	—
		Excavation, dredging and reinstatement of basin	Wilson Lovatt & Sons, Ltd.	212,000	July, 1949	Sept., 1950
West India Dock	Ditto	Repair of sheds	Higgs & Hill, Ltd. ...	61,000	Jan., 1948	Sept., 1950
		Construction of new quay	John Mowlem & Co., Ltd.	112,000	Feb., 1950	—
		Construction of two sheds	Ditto	480,000	Nov., 1950	—
India and Millwall Docks	Ditto	Repairs to lock gates	Harland & Wolff, Ltd.	48,000	Apr., 1950	—
Royal Albert Dock ...	Ditto	Reconstruction of sheds...	Ditto	35,000	Aug., 1948	—
Royal Victoria Dock ...	Ditto	Reconstruction of sheds...	Walker Bros., Ltd. ...	63,000	Oct., 1947	—
King George V Dock ...	Ditto	Reconstruction of upper jetty, dock entrance ...	Cleveland Bridge & Eng. Co., Ltd.	60,000	Oct., 1947	Jan., 1950
		Reconstruction of sheds...	Holloway Bros. (Ldn.) Ltd.	70,000	Aug., 1947	Feb., 1950
		Reconstruction and repair of sheds	Higgs & Hill, Ltd. ...	99,000	Dec., 1948	—
		Repairs to lock gates	Harland & Wolff, Ltd.	80,000	Sept., 1948	—
		Construction of new lock gates	Head, Wrightson & Co., Ltd.	54,000	Mar., 1950	—
Royal Docks	Ditto	Two floating pneumatic grain elevators	H. Simon, Ltd. ...	281,000	Jan., 1949	—
Tilbury Dock	Ditto	Repairs to Tilbury landing stage (war damage)...	Cleveland Bridge & Eng. Co., Ltd.	42,000	Mar., 1949	Aug., 1950
		Road access—improvements...	John Mowlem & Co., Ltd.	101,000	July, 1949	Dec., 1950
River	Ditto	Three piers for Festival of Britain	Harland & Wolff, Ltd.; J. Westwood & Co., Ltd.; John Mowlem & Co., Ltd.	60,000	Apr., 1950	—
Teesport Oil and Lay-by Berths: Tees Conservancy Commissioners	Rendel, Palmer & Tritton	Construction of two r.c. riverside jetties and ancillary shore works	Cleveland Bridge and Eng. Co., Ltd.	330,000	June, 1948	Dec., 1950
		Land reclamation	Dorman, Long & Co., Ltd.	230,000	Oct., 1947	Dec., 1949
		Dredging of berth	Direct labour	70,000	1947	1951

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		HARBOURS AND DOCKS (*continued*)		£		
HOME						
Prince Regent's Wharf, Silvertown: Burt, Boulton & Haywood, Ltd.	Rendel, Palmer & Tritton	Reconstruction of war-damaged wharf	James Miller & Partners, Ltd.	60,000	Apr., 1946	1950
North Thames Gas Board	Ditto	Jetty, pumping station and 8000-ton coal bunker at Nine Elms, London	Holloway Bros. (London), Ltd.	250,000	June, 1948	1950
Anglo-Iranian Oil Co. and National Oil Refineries, Ltd., Queen's Dock, Swansea	Ditto	Demolition of three timber jetties and construction of three r.c. jetties	F. Howard, Ltd. ...	165,000	Apr., 1948	1952
		Demolition of timber jetty and construction of two r.c. jetties	Ditto	—	—	—
		Extension of deep dredged channel and reclamation	Ditto	—	—	—
Widening and Deepening of Hendon Junction	River Wear Commissioners	Widening waterway between Hudson and Hendon docks and other work	Direct labour	170,000	1947	1951
Improvement of Hendon Dock and Hudson Dock	Ditto	At Hendon dock, construction of r.c. piled quay deck, laying rail and crane tracks, &c.	John Gill Contractors, Ltd.; Myton Ltd., direct labour and others	136,200	1949	1950
Widening of River Wear at Folly End	Ditto	Construction of a steel sheet piled quay and ferry landing. Dredging	Myton, Ltd., and direct labour	107,576	1949	1951
Widening of River Wear nr. Wearmouth Bridge	Ditto	Construction of a steel sheet piled retaining wall and sewer outfall. Dredging	Purdie, Lumsden & Co., Ltd., and direct labour	86,439	1948	1951
Rearrangement of Workshops	Ditto	Construction of new workshop buildings, laying services, railway tracks and paving	D. & J. Ranken, Ltd., and direct labour	75,296	1950	1951
Lever Bros., Ltd., Port Sunlight	Frederick S. Snow & Partners	Reconstruction of wharf superstructure	Mears Bros. (Contractors), Ltd.	30,000	Nov., 1950	1951
Town Quay Reconstruction	Southampton Harbour Board	Reconstruction of open piled r.c. jetty, with crane and railway tracks	Yorkshire Hennebique Contr. Co., Ltd.	70,000	May, 1949	Spr., 1951
Warehouse, Town Quay	Ditto	Rebuilding of two-storey cargo warehouse (war damage)	Not yet placed	50,000	Spring, 1951	—
Tyne Dock, South Shields	Rendel, Palmer & Tritton & Tyne Improvement Commission	New r.c. deep-water quay, 867ft long, and ore bunker foundations	The Yorkshire Hennebique Contracting Co., Ltd.	373,688	Nov., 1950	Aug., 1952
Boal Quay Wharfingers, Ltd.	Wilton & Bell	Sheet piled quay wall, r.c. deck and crane gantry	Not yet placed	70,000	Early 1951	Mid. 1951
ABROAD						
East African Ground Nuts Scheme	Coode Vaughan - Lee, Frank & Gwyther	Port works at Mtwara	Balfour Beatty & Co., Ltd.	750,000	Sept., 1947	Dec., 1951
Deep Water Quay, Freetown, Sierra Leone	Ditto	1200ft quay wall, sheds and reclamation	Pauling & Co., Ltd. ...	800,000	Mar., 1948	Apr., 1952

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		HARBOURS AND DOCKS (*continued*)		£		
ABROAD						
Port Development Works Colombo: Ceylon Government	Coode Vaughan - Lee, Frank & Gwyther	Stage I, Construction of North East breakwater quay, oil dock, Delft pier, quay widening at Delft, reclamations, &c.	Compagnie Industrielle des Travaux & Etablissements Billiard	2,450,000	June, 1950	Feb., 1953
Apapa Wharf Extension, Lagos, Nigeria	Ditto	2565ft wharf wall, 370ft lighter berth, sheds, dredging, reclamation, railway sidings	Richard Costain, Ltd.	2,600,000	Jan., 1950	Apr., 1955
Oil Jetties, Fao, Iraq: Basrah Petroleum Co., Ltd.	Ditto	Two oil jetties, viaduct approaches, four berthing dolphins and six mooring dolphins	Holloway Bros. (London), Ltd.	360,000	Oct., 1950	Feb., 1952
Govt. of Gambia, West Africa	Maunsell, Posford & Pavry	Reconstruction of Govt. wharf, Bathurst	Caffin & Co., Ltd. ...	54,000	1950	1951
Extensions to Takoradi Harbour, Gold Coast	Rendel, Palmer & Tritton	Timber depot, deep-water wharf extensions, oil berth, bauxite berth, land reclamation	Taylor Woodrow Construction, Ltd.	2,250,000	June, 1949	1953
Government of Pakistan	Rendel, Palmer & Tritton; Merz & McLellan; Vattenbyggnadsbyran (Stockholm)	Construction of seven steel screwpile jetties at Chittagong	Braithwaite & Co., Ltd.	2,400,000	Dec., 1950	1953
Manaos Harbour, Ltd.	Wilton & Bell	Reconstruction of piers and slipway; diesel-electric power-house	Direct labour	50,000	1950	1951
HOME		**HYDRO-ELECTRIC WORKS** (*Figures in brackets give the installed capacity of the scheme and the estimated annual production*)				
NORTH OF SCOTLAND HYDRO - ELECTRIC BOARD'S SCHEMES:						
Glen Shira	Babtie, Shaw & Morton; Merz & McLellan	Dams, tunnels and other works (45MW, 80 $\times 10^6$kWh)	A. M. Carmichael, Ltd.; Glenfield & Kennedy, Ltd.	3,150,000	1948	In stages up to Sept., 1953
Storr Lochs	Blyth & Blyth	Power station, dam, pipe-lines and other works (1·6MW, 3·5 $\times 10^6$kWh, first stage)	James Miller & Part., Ltd.	250,000	1948	1951
Cowal	Crouch & Hogg; Merz & McLellan	Power station, dams, tunnels and other works (6MW, 14 $\times 10^6$kWh)	Crowley, Russell & Co., Ltd.; John Woodrow & Sons, Ltd.; Whatlings, Ltd.	1,200,000	1947	1951
Tummel-Garry: Stage I	Sir Alexander Gibb & Partners; Merz & McLellan	Hydro-electric development at Pitlochry (75MW, 197 $\times 10^6$kWh)	Wm. Tawse, Ltd.; Cementation Co., Ltd.; A. M. Carmichael, Ltd.; Glenfield & Kennedy; Geo. Wimpey & Co., Ltd.; P. & W. MacLellan, Ltd., and others	6,000,000	June, 1946	—

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		HYDRO-ELECTRIC WORKS (*continued*)				
HOME				£		
Tummel-Garry: Stage II	Sir Alexander Gibb & Partners; Merz & McLellan	Hydro-electric development, Errochty section (75MW, 103×10^6kWh)	A. M. Carmichael, Ltd., and others	7,000,000	Nov., 1948	—
Fannich	Ditto	Hydro-electric development, Ross-shire (24MW, 83×10^6kWh)	Wm. Tawse, Ltd.; Balfour, Beatty & Co.; Mechans, Ltd.; John Bisset & Sons, and others	3,000,000	Autumn, 1946	—
Glascarnogh - Luichart-Torr Achilty: Stage I	Ditto	Hydro-electric development, Luichart-Torr Achilty section (39MW, 160×10^6kWh)	To be settled	5,000,000	Autumn, 1950	—
Mullardoch - Fasnakyle - Affric	Sir William Halcrow & Partners	Dams, tunnels, power station, &c. (66MW, 223×10^6kWh)	John Cochrane & Sons, Ltd., and others	5,500,000	1947	1951
Gairloch	Ditto	Power station, pipe-lines and other works ($0 \cdot 6$MW, 3×10^6kWh, first stage)	Duncan Logan (Contractors,) Ltd.; Alexander Findlay & Co., Ltd.	268,000	1948	1951
Garry-Moriston	Ditto	Borings for investigations of sites of dams, aqueducts and power stations	Soil Mechanics, Ltd.; Le Grand Sutcliff & Gell, Ltd.	25,000	1948	1950
Glen Lussa	James Williamson & Partners, and Strain & Robertson	Reservoir, aqueducts, pipe-line and power station ($2 \cdot 4$MW, $8 \cdot 5 \times 10^6$kWh)	John Woodrow & Sons, Ltd.; Wilson Kinmond & Marr, Ltd.	300,000	July, 1948	1951
Loch Sloy	James Williamson & Partners, and Kennedy & Donkin	Reservoir, aqueducts, tunnels, pipe-lines and power station (130MW, 115×10^6kWh)	Balfour, Beatty & Co., Ltd.; Edmund Nuttall, Sons & Co., Ltd.; Sir Wm. Arrol & Co., Ltd.; Hugh Leggat, Ltd., and others	5,000,000	June, 1945	1951
Sloy Transmission... ...	Merz & McLellan	Erection of main transmission lines	Balfour, Beatty & Co., Ltd.	910,000	1947	1950
Keith-Aberdeen Transmission	Ditto	Erection of main transmission lines	Ditto	689,000	1947	1950
Aberdeen - Dundee Transmission	Ditto	Erection of main transmission lines	Riley & Neate, Ltd....	372,000	1948	1950
Shira – Inveruglas Transmission	Ditto	Erection of main transmission lines	British Insulated Callender's Cables, Ltd.	190,000	1948	1950
Beauly - Aberdeen Transmission	Ditto	Erection of main transmission lines	Riley & Neate, Ltd....	554,000	Dec., 1950	Dec., 1952
Fasnakyle - Fort Augustus Transmission	Kennedy & Donkin ...	Erection of 132kV transmission line	J. L. Eve Construction Co.	255,000	June, 1949	June, 1951
Tummel - Inveruglas Transmission	Ditto	Erection of 132kV transmission line	Balfour, Beatty & Co., Ltd.	390,000	Oct., 1949	1952

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		HYDRO-ELECTRIC WORKS (*continued*)		£		
ABROAD						
Jamaica Public Service Co., Ltd.	Ewbank & Partners; Sir William Halcrow & Partners	Intake reservoirs and weir, tunnel, pipe-line and power station	Jamaica Public Service Co., Ltd.	250,000	Oct., 1949	Nov., 1951
Volta River Project: Gold Coast	Sir William Halcrow & Partners	Exploratory drilling and geophysical programme for investigation of sites for a high dam	Cementation Co., Ltd.; Geophysical Services, Ltd.	32,000	1950	1951
Borneo Hydro-Electric Project	Ditto	Exploratory drilling for investigation of large hydro-electric scheme for British Aluminium Co., Ltd.	Associated Drilling & Supply Co., Ltd.	35,000	1948	1950
Owen Falls: Uganda Electricity Board	Kennedy & Donkin; Sir Alexander Gibb & Partners	Power station and dam across River Nile	Owen Falls Construction Co.	4,000,000	1949	1953
Aswan Hydro-Electric Scheme: Hydro-Electric Power Dept., Government of Egypt	Kennedy & Donkin; Binnie, Deacon & Gourley; Gruner Bros., and Sir Murdoch MacDonald & Partners	Foundations, buildings, penstocks, &c.	Net yet let	—	1951	1957
Ceylon Hydro-Electric Scheme: Ceylon Government	Preece, Cardew & Rider	Dam, tunnels, pipe-lines, power station (25MW), and associated works (Stage I)	Direct labour and others	1,332,000	Sept., 1939 (delayed during war)	Stage I, Oct., 1950
		IRRIGATION				
ABROAD						
Habbaniyah Flood Relief; Iraq Government	Coode, Vaughan-Lee, Frank and Gwyther	Inlet channel and regulator into Lake Habbaniyah; escape channel and regulator	Balfour, Beatty & Co., Ltd.	2,000,000	Nov., 1946	Mar., 1951
Sherkat Sehami Kuhrang and Independent Irrigation Corpn, Isfahan, Iran	Sir Alexander Gibb and Partners	Diversion weir, intake works and tunnel, 1¾ miles, to carry the head waters of the Karun River for irrigation	Nortrac-Iran	875,000	Oct., 1948	—
		MISCELLANEOUS				
HOME						
Steel Company of Wales, Ltd.: Abbey Works	W. S. Atkins & Partners	Heavy civil engineering for melting shop and hot strip mill	Geo. Wimpey & Co., Ltd.	7,000,000	1947	1951
		Building, including 35,000 tons of welded structural steelwork and cladding	Sir Wm. Arrol & Co., Ltd.; Dorman, Long & Co., Ltd.	3,750,000	1947	1951
		Heavy civil engineering and 7000 tons of welded structural work, cold reduction plant	John Laing & Son, Ltd.; Dorman, Long & Co., Ltd.	1,585,000	1949	1950
Cold Reduction Plant, Trostre	Ditto	9000 tons structural steelworks and cladding ...	Dorman, Long & Co., Ltd.	800,000	1948	1950
North Thames Gas Bd.	Brian Colquhoun and Partners	Reconstruction of tar and ammonia works... ...	Sir Robt. McAlpine & Sons, Ltd.; Mills, Packard Constr., Ltd.	3,500,000	Jan., 1948	1952

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		MISCELLANEOUS (*continued*)		£		
HOME						
Paton & Baldwins, Ltd.	Sir Alexander Gibb and Partners	Site development for new factory at Darlington	John Laing & Son, Ltd.	4,000,000 approx.	1946	—
Fisons, Limited	Sir Alexander Gibb and Partners; Maunsell, Posford & Pavry	Site development, piling, &c., for new factory at Immingham	Arthur Monk & Co., Ltd.	2,000,000 approx.	1947	—
Midland Rollmakers, Ltd.	Sir Alexander Gibb and Partners	Site development for new foundry and machine shops at Crewe	Geo. Wimpey & Co.; Gee, Walker & Slater, Ltd.	698,000	Mar., 1948	—
Saunders Roe, Ltd. ...	Sir Alexander Gibb and Partners; Maunsell, Posford & Pavry	Construction of r.c. flying boat slipway at Cowes, I. of W.	A. Jackaman & Son, Ltd.	35,000	Aug., 1949	—
Bakelite, Ltd....	Sir Alexander Gibb and Partners	Site development for vinyl resin production at Aycliffe	Not yet placed... ...	450,000 1st stage	Feb., 1951	—
Steel, Peech & Tozer ...	Husband & Co.	Two r.c. overhead crane gantries...	J. Booth & Sons, Ltd.; United Steel Structural Co.; G. Longden & Son, Ltd.	150,000	Oct., 1948	Mar., 1951
Westminster C.C.	Kennedy & Donkin and Scott & Wilson	District heating for Pimlico housing estate... ...	J. Jeffreys & Co. and G. N. Haden & Sons	250,000	Feb., 1948	1951
Festival of Britain Works	London County Council...	Preparation of South Bank site; levelling, sewers, services, &c.	R. Costain, Ltd.; Holland & Hannen & Cubitts, Ltd.	150,000	Aug., 1949	Mar., 1951
		Roundabout at York Road and Waterloo Road, S.E.1	Fitzpatrick & Son (Contractors), Ltd.	110,000	June, 1950	Feb., 1951
		Two temporary landing stages	R. Costain, Ltd.; J. W. Cook & Co. (Wivenhoe), Ltd.	120,000	July, 1950	Mar., 1951
		River piers for Bailey bridge...	R. Costain, Ltd. ...	40,000	Jan., 1950	July, 1950
		Approach platform to Bailey bridge	Ditto	43,000	Oct., 1950	Apr., 1951
		Roundabout at York Road and Westminster Bridge Road, S.E.1	Fitzpatrick & Son (Contractors), Ltd.	70,000	Mar., 1950	Jan., 1951
The Shell Refining and Marketing Co., Ltd.	Maunsell, Posford and Pavry; Sir Alexander Gibb and Partners	New oil refinery at Stanlow, Cheshire...	Arthur Monk & Co., Ltd.	4,000,000	1948	—
		New oil refinery at Shellhaven, Essex...	John Mowlem & Co., Ltd.	3,400,000	1948	—
Joseph Rank, Ltd. ...	L. G. Mouchel & Partners, Ltd.	Piled foundations and superstructure of mill building	Holloway Bros. (London), Ltd.	61,000	Sept., 1950	June, 1951
		Caledonia flour mills, Leith	Not yet placed... ...	1,000,000	Sept., 1951	—
Steel Company of Wales, Ltd.	Ditto	Foundations, drainage, cold reduction plant, Trostre	Robert M. Douglas, Ltd.	5,000,000	Oct., 1947	—

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		MISCELLANEOUS (*continued*)				
HOME				£		
Bradford Colliery Reorganisation : National Coal Board	L. G. Mouchel & Partners, Ltd.	Coal bunkers, underground coal storage silo, tunnel and conveyor housing, Manchester	John Mowlem & Co., Ltd.	170,000	1948	1950
Huddersfield Area... ...	North-Eastern Gas Board	2½ miles, 12in dia., 10½ miles, 6in dia., spun iron pipes	Various	58,700	Dec., 1950	—
Middlesbrough Div. ...	Northern Gas Board ...	24in main, Cannon Street to Wilton	Direct labour	100,000	1948	1950
Darlington Div.	Ditto	Main Evenwood to Darlington	W. Towson & Son	92,000	1949	1950
		15in main Bishop Auckland to Newton Aycliffe	Not yet placed... ...	62,900	—	—
		H.P. main Barnard Castle	Ditto	31,670	Jan., 1951	June, 1951
Carlisle Div.	Ditto	H.P. linking main Carlisle to Brampton	Ditto	50,000	Mar., 1951	Jan., 1952
British Nylon Spinners, Ltd.	Scott & Wilson	Factory extension, piled foundations, drainage, sewage disposal works	Not yet let	600,000	Jan., 1951	Dec., 1952
Hangars at London Airport for B.E.A.	Scott & Wilson; Roger Preston & Partners; Ramsey, Murray & White	Hangars, workshops, road and drainage, &c. ...	Holland & Hannen & Cubitts	1,500,000	July, 1950	May, 1952
West Norfolk Farmers' Manure and Chemical Co-op. Co., Ltd.	Wilton & Bell	Foundation and steel frame of factory; r.c. road and rail bridge across River Nar	J. L. Kier & Co., Ltd.; Boulton & Paul, Ltd.; Vibrated Concrete Constr. Co., Ltd.; Bellman Hangars, Ltd.	380,000	Jan., 1949	Mar., 1951
ABROAD						
Anglo-Iranian Oil Company	Sir Alexander Gibb & Partners; F. A. Greene	Site development, erection of workshops and plant at Ahwaz, Persia	Shargh Technical & Construction Co.	1,100,000	Dec., 1949	—
Govt. of Gibraltar ...	R. T. James & Partners	Site development for multi-storey dwelling, roads	Humphreys, Ltd. ...	1,785,000	1940	1950
Shimshon Palestine Cement Works, Ltd., Hartuv, Israel	Henry Pooley; A. A. Postnikow	Machinery foundations, diesel power station and steel-framed buildings	Solel Boneh, Ltd., Jerusalem	500,000 Israel pounds	1950	—
Uganda Electricity Board, Tororo, Kampala	Henry Pooley	Machinery foundations, steel-framed buildings and cement plant	Impresa Ing. Sante Astaldi, Rome, Italy	900,000	1949	—
Nyasaland Govt.	Scott & Wilson	Chileka Airport	Trevor Constr. Co....	140,000	Apr., 1949	June, 1951

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		POWER STATIONS		£		
HOME						
POWER STATIONS OF THE BRITISH ELECTRICITY AUTHORITY:						
Carrington	C. S. Allott & Son	Foundations, superstructure, C.W. ducts, river works, &c.	G. Dew & Co., Ltd.; Taylor Woodrow Constr., Ltd.; Sir Wm. Arrol & Co., Ltd., and others	3,166,000	1948	1952
Croydon "B"	C. S. Allott & Son; F. N. Rendell-Baker	Foundations, superstructure, C.W. system, &c....	Sir Robt. McAlpine & Sons, Ltd.; Sir Wm. Arrol & Co., Ltd.; Concrete Piling, Ltd.	3,500,000	1946	1951
Trafford	C. S. Allott & Son	Extensions for 15MW gas turbine, foundations, superstructure, &c.	J. Gerrard & Sons, Ltd., and others	135,000	1949	1951
Stuart Street	Ditto	Extensions, site clearance, foundations, superstructure, C.W. system, &c.	Lea Valley Demolit'n & Constr. Co., Ltd.; John Mowlem & Co., Ltd., and others	575,000	1946	1951
Brunswick Wharf, Poplar	John Bruce and Partners and L. G. Mouchel and Partners	Foundations, superstructure, river works, C.W. system, &c.	Peter Lind & Co., Ltd., and others	4,407,000	1947	1952
Keadby	Ewbank & Partners, Ltd.; Sir William Halcrow and Partners	Foundations, C.W. system, &c.	Sir Robt. McAlpine & Sons (Midlands), Ltd.	2,150,000	Apr., 1948	1951
Doncaster	Ditto	Foundations, C.W. system, &c.	Higgs & Hill, Ltd. ...	450,000	May, 1950	Jan., 1952
Peterborough	Sir Alexander Gibb & Partners	Foundations, buildings, river works, &c.	G. Percy Trentham, Ltd.; Mitchell Construction Co., Ltd.	900,000	Dec., 1947	—
Brighton "B"	Sir William Halcrow and Partners	C.W. system and harbour improvements	Bierrum & Partners, Ltd.	430,000	1948	1951
		Cable tunnel below Shoreham Harbour	Balfour, Beatty & Co., Ltd.	80,000	Nov., 1950	1952
Chadderton	Kennedy & Donkin and L. G. Mouchel and Partners	First half of station; foundations and buildings, C.W. system, &c.	M. J. Gleeson, Ltd., and others	1,350,000	Sept., 1949	1951
Huncoat (Accrington) ...	Ditto	First half of station; foundations and buildings, C.W. system, &c.	John Laing, Ltd.; J. Jarvis & Sons, Ltd.; J. Gerrard & Sons, Ltd.; Bierrum & Partners, Ltd.; and others	1,150,000	Feb., 1948	1950

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		POWER STATIONS (*continued*)		£		
HOME						
Portobello (Edinburgh)...	Kennedy & Donkin; Kinnear & Gordon, & Andrews Kent & Stone	Extension of generating station	W. & J. R. Watson...	487,530	1948	1950
Westwood (Wigan) ...	Kennedy & Donkin and C. S. Allott & Son	Foundations and buildings, coaling wharf, C.W. system, &c.	Taylor, Woodrow Constr., Ltd.; Wm. Moss & Sons, Ltd.; Mitchell Constr. Co., Ltd., & others	1,900,000	Apr., 1947	1950
Cliff Quay	Merz & McLellan and Sir Alexander Gibb & Partners	Foundations, buildings, riverworks, &c.	Edmund Nuttall, Sons & Co. (London), Ltd.	2,250,000	May, 1945	—
Littlebrook "C"	Ditto	Foundations, buildings, riverworks, &c.	Holloway Bros. (London), Ltd.	2,000,000	Jan., 1949	—
Bromborough...	Ditto	Foundations, buildings, riverworks, &c.	Sir Alfred McAlpine & Son, Ltd.; Chas. Brand & Sons, Ltd.	2,300,000	May, 1946	—
West Ham "B"	Ditto	Foundations, buildings, riverworks, &c.	Taylor Woodrow Constr., Ltd.; J. L. Kier & Co.; Tileman & Co., Ltd.	1,700,000	Sept., 1946	—
Blackwall Point	Ditto	Foundations, buildings, riverworks, &c.	Holloway Bros. (London) Ltd.; Peter Lind & Co., Ltd.; Tileman and Co., Ltd.	1,000,000	Jan., 1946	—
Tilbury	Ditto	Access road and railway sidings, &c.	Holloway Bros. (London), Ltd.	165,000	July, 1950	—
Goldington	Ditto	Access road, railway bridge, sidings, &c.	Taylor Woodrow Constr., Ltd.	75,000	June, 1950	—
Barking "C"	Ditto	Foundations, buildings, riverworks, &c.	Sir Robert McAlpine & Sons; Tileman & Co., Ltd.	1,800,000	Sept., 1947	—
Braehead	Ditto	Foundations, buildings, riverworks, &c.	John Mowlem & Co., Ltd.; Chimneys, Ltd.	2,000,000	Sept., 1946	—
Skelton Grange	Ditto	Foundations, buildings, riverworks, &c.	Holloway Bros. (London), Ltd., and others	1,800,000	July, 1947	—
Meaford "B"	Ditto	Earthworks, foundations, &c.	G. Percy Trentham, Ltd.	537,000	Oct., 1950	—
North Tees	Ditto	Foundations, superstructure, coal and ash wharf	Sir Robert McAlpine & Sons (Newcastle-on-Tyne), Ltd.	2,000,000	Jan., 1948	1950

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		POWER STATIONS (*continued*)		£		
HOME						
Roosecote, Barrow-in-Furness	Merz & McLellan and James Williamson & Partners	Foundations and other works	Gerrard & Sons, Ltd.; Franki Piling Co., Ltd.	510,000	Oct., 1950	1952
Dunston	Merz & McLellan	Extension to power station	Sir Robert McAlpine & Sons (Newcastle-on-Tyne), Ltd.	485,000	May, 1946	1950
Poole	Mott, Hay & Anderson; Merz & McLellan	Foundations, wharves, C.W. tunnels	Sir Robert McAlpine & Sons, Ltd.; Tileman & Co., Ltd.	1,950,000	Aug., 1946	1950
Bankside, London... ...	Mott. Hay & Anderson...	Foundations, C.W. system, river jetty, underground oil storage and buildings	Sir Robert McAlpine & Sons, Ltd.	2,000,000	July, 1948	1951
Deptford, London ...	Ditto	New river C.W. systems	A. Waddington & Son, Ltd.	470,000	Jan., 1949	1951
Clarence Dock, Liverpool	L. G. Mouchel & Partners, Ltd.	Extensions to power station	Wm. Moss & Sons, Ltd.; and others	1,500,000	Mar., 1948	1951
Nechells, Birmingham ...	Ditto	Foundations, superstructure, coal-handling plant, and other works, &c.	Sir Robert McAlpine & Sons, Ltd.; Fred Mitchell & Son, Ltd.	1,500,000	June, 1947	1951
Hams Hall "B," Birmingham	Ditto	Foundations, superstructure (second half), and other works	Ditto	1,500,000	Apr., 1944	1951
Ribble, Preston	Ditto	Extensions to No. 2 power station	Wm. Moss & Sons, Ltd.	1,000,000	1944	Nov., 1950
Brighton "B"	Ditto	Foundations, superstructure, chimneys, coal-handling plant, administration block, &c.	Holloway Bros. (London), Ltd.; Redpath, Brown & Co., Ltd.	3,000,000	1947	1954
Uskmouth, Newport, Mon.	Ditto	Piled foundations, superstructure, C.W. ducts, switch-house, and other works	Holloway Bros. (London), Ltd., and others	6,500,000	Sept., 1947	—
Agecroft, Salford	Ditto	First half of station	M. J. Gleeson, Ltd.; A. Monk & Co. Ltd., and others	2,500,000	1947	1950
Hackney	Ditto	Foundations, superstructure, wharf, C.W. system, &c.	Not yet placed... ...	2,000,000	1950	—
Connah's Quay, Chester	Ditto	Reclamation, foundations, buildings, C.W. system, &c.	Westminster Dredging Co., Ltd.; Yorkshire Hennebique Co., Ltd.; Francis Morton & Co., Ltd.	2,300,000	Mar., 1950	1953
Plymouth "B"	Ditto	Foundations, superstructure, C.W. system and wharf, &c.	John Laing & Son, Ltd.; Pierson & Co., Ltd.	1,750,000	Feb., 1948	1952

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		POWER STATIONS (*continued*)		£		
HOME						
Drakelow, Birmingham...	L. G. Mouchel & Partners, Ltd.	Foundations and superstructure, sewage works, &c.	Sir Robert McAlpine & Sons, Ltd.	2,000,000	May, 1950	—
Fleetwood, Lancs. ...	Ditto	Reclamation, foundations, buildings, C.W. system, &c.	M. J. Gleeson, Ltd., and others	2,300,000	May, 1950	—
Walsall	Ditto	Cooling towers (six)	Mitchell Construction Co.	525,000	Dec., 1946	1951
Croydon "B"	Ditto	Cooling towers (six) and water distribution scheme	Concrete Piling, Ltd.	750,000	Apr., 1947	Aug., 1951
Freemen's Meadow, Leicester	Pick, Everard, Keay & Gimson	Main building and alterations to coal sidings ...	Holloway Bros. (London), Ltd.	1,000,000	Mar., 1946	June, 1951
East Yelland	Preece, Cardew & Rider; Sir Alexander Gibb & Partners	Foundations, steelwork, sidings, culverts, &c. ...	Taylor Woodrow Constr., Ltd.	525,000	Apr., 1950	—
Kingston	Preece, Cardew & Rider; Coode, Vaughan - Lee, Frank & Gwyther	Extension to power station	Chas. Brand & Sons, Ltd.	400,000	Jan., 1947	1950
Hartshead - West Melton Transmission	Merz & McLellan	Erection of main transmission lines	Watshams, Ltd. ...	60,000	Dec., 1950	Dec., 1952
Pulrose: Corpn. of Douglas, Isle of Man	Kennedy & Donkin and C. S. Allott & Son	Extension to power station	Parkinsons, Ltd., and others	130,000	Mar., 1948	1950
Ballylumford: Elec. Board for Northern Ireland	Ditto	Extension to power station	McLaughlin & Harvey, Ltd.	450,000	1946	1950
Belfast: City and County Borough of Belfast	Merz and McLellan and James Williamson & Partners	Extensions to harbour power station	Concrete Piling, Ltd.; Stewart & Partners, Ltd.; McLaughlin & Harvey, Ltd.	274,400	Dec., 1949	—
Thames Board Mills, Ltd.	Frederick S. Snow & Partners	Reconstruction of power-house	W. & C. French, Ltd.	130,000	1948	1950
ABROAD						
Connaught Bridge, Federation of Malaya (Crown Agents)	Coode, Vaughan - Lee, Frank & Gwyther; Preece, Cardew & Rider	Steelwork, foundations, C.W. system, main building	Redpath, Brown & Co., Ltd.; Gammon (Malaya), Ltd.; Ewart (Civil Engs.) Ltd.; Bong Sin & Co.	500,000	Sept., 1948	Mar., 1951
Central Electrification, Cyprus	Sir Cyril Kirkpatrick & Partners	Foundations, buildings, roads, C.W. system ...	Sir Lindsay Parkinson & Co., Ltd.; T. W. Palmer & Co., Ltd.	201,000	1949	—

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		POWER STATIONS (*continued*)		£		
ABROAD						
Table Bay : Capetown Corpn.	Merz & McLellan and F. E. Kanthack & Partners, Johannesburg	Extension to power station	Clifford Harris (Pty.), Ltd.	88,000	Mar., 1949	Mar., 1951
Pretoria " B " : Pretoria Corpn.	Ditto	Foundations, C.W. ducts, superstructure, &c. ...	Roberts Constr. Co. (Pty.), Ltd. & others	726,600	Dec., 1947	Apr., 1951
Orlando : Johannesburg Corpn.	Ditto	Power station extensions	Freeman & Pyle (Pty.), Ltd.	205,600	Apr., 1949	—
City of Salisbury, Southern Rhodesia	Ditto	Power station extensions	Trevor Construction Co. (Rhodesia), Ld.	98,300	May, 1949	Nov., 1950
City of Bloemfontein ...	Merz & McLellan and Sir Alexander Gibb & Partners	Extension to power station	Lewis Construction Co. (S.A.), Ltd.	188,000	Nov., 1950	Jan., 1952
Sherkat Sehami Turbine, Isfahan, Iran	Ditto	Power station, 12MW, and distribution system...	Local contractors ; British plant suppliers	1,500,000	Aug., 1948	—
New Cossipore Generating Station : Calcutta Electric Supply Corp., Ltd.	Merz & McLellan (India) and Rendel, Palmer & Tritton	C.W. system, river works, &c.	Hindustan Construction Co., Ltd.; Braithwaite Burn, Jessop Constr. Co., Ltd.	1,585,000	Sept., 1945	Jan., 1950
Khaperkheda Power Station : Govt. of Madhya Pradesh	Ditto	General building work, coal-handling plant foundations, riverside pump-house, &c.	New United Constr. and Eng. Co., Ltd., and others	183,750	Sept., 1948	Nov., 1950
Delhi Central "B" Power Station	Ditto	Main building, riverside pump-house, other works	Hindustan Constr. Co., Ltd. ; Richardson & Cruddas, Ltd.	207,600	Jan., 1950	—
Basin Bridge " B " Power Station (Madras)	Ditto	Buildings, C.W. pipework, cooling tower, &c. ...	Coramandel Eng. Co. and others	312,000	1948	—
Riverside Power Station Extensions : Kanpur, Govt. of Uttar Pradesh	Ditto	Foundations, C.W. pump-house, &c.	Jardine, Menzies & Co.	34,350	Mar., 1950	—
Kalyan : G.I.P. Railway	Ditto	Extension to power station	Mangatram Constr. Co., Ltd., & others	206,300	Jan., 1950	—
Johannesburg Corpn. ...	Merz & McLellan	88kV transmission system extensions	Hubert Davies & Co., Ltd.	126,475	Dec., 1947	—
Menalla Kubra, Egypt : Société Misr pour la Filature et la Tissage	L. G. Mouchel & Partners, Ltd.	Complete power station design and lay-out, including two cooling towers	Misr Concrete Development Co.	800,000	Jan., 1947	1950
Bloemfontein, S. Africa : Electricity Supply Commission	Merz & McLellan ; F. E. Kanthack & Partners ; L. G. Mouchel & Partners, Ltd.	Cooling tower	Lewis Constr. Co. (South Africa), Ltd.	123,000	Dec., 1950	1952

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		POWER STATIONS (*continued*)		£		
ABROAD						
Portamington, Eire: Electricity Supply Board	L. G. Mouchel & Partners, Ltd.	Cooling tower	Irish Eng. & Harbour Constr. Co., Ltd.	58,000	June, 1948	June, 1950
Allenwood, Eire: Electricity Supply Board	Ditto	Cooling tower	Ditto	122,000	Nov., 1948	1951
Umniati "B," S. Rhodesia: Electricity Supply Commission	F. E. Kanthack & Partners; L. G. Mouchel & Partners, Ltd.	Cooling towers (two)	Lewis Constr. Co. (Rhodesia), Ltd.	75,000	Jan., 1951	—
Basin Bridge "B," Madras: Govt. of Madras Electricity Dept.	Merz & McLellan; L. G. Mouchel & Partners, Ltd.	Cooling towers (two)	J. C. Gammon, Ltd....	75,000	May, 1948	1952
Sabarmati "B" Ahmedabad: Ahmedabad Electricity Co., Ltd.	L. G. Mouchel & Partners Ltd.	Cooling towers (three)	Ditto	44,000	June, 1948	1950
Carling, France: Electricité de France	Ditto	Cooling towers (two)	Société de Condensation et D'Applications Mecaniques	200,000	Nov., 1947	1951
Terre Rouge, Luxembourg: Acieries Rennies de Burbach eich Dudelange	Ditto	Cooling towers (two)	Société de Electricité et de Mecanique	60,000	Apr., 1949	—
		RAILWAYS				
HOME						
Coborn Road to Stratford	B.R., Eastern Region: *J. I. Campbell*	Reconstruction of underline bridge No. 47, Old Ford Road	Cleveland Bridge & Eng. Co., Ltd.	63,361	June, 1948	Mar., 1950
Manchester - Sheffield - Wath Electrification	Ditto	Reconstruction of fifteen bridges	Wellerman Bros., Ltd.	67,968	Nov., 1948	June, 1951
		Wath-upon-Dearne, new sidings, earthworks, &c., and locomotive shed	Charles R. Price ...	75,830	May, 1949	Mar., 1951
		Steel frame and roof for Reddish electric locomotive shed	Samuel Butler & Co., Ltd.	52,117	Oct., 1949	Dec., 1950
		Earthworks and reconstruction of two bridges ...	Wellerman Bros., Ltd.	31,717	Feb., 1950	June, 1951
Woodhead	B.R., Eastern Region: *J. I. Campbell* and Sir Wm. Halcrow & Partners	Construction of new double-line tunnel	Balfour, Beatty & Co., Ltd.	2,350,000	Feb., 1949	Dec., 1952
Tinsley	B.R., Eastern Region: *J. I. Campbell* and M.O.T.	Reconstruction of bridges	Wellerman Bros., Ltd.	65,089	June, 1949	Oct., 1951
King's Cross to Finsbury Park	Ditto	Reconstruction of underline bridge No. 12 ...	The Butterley Co., Ltd.	35,154	Apr., 1950	Sept., 1951

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		RAILWAYS (*continued*)		£		
HOME						
Wakefield (Westgate) ...	B.R., North Eastern Region : *J. Taylor Thompson*	Reconstruction of Westgate underline bridge No. 4	Samuel Butler & Co., Ltd.	33,655	Aug., 1949	Sept., 1951
Selby	B.R., North Eastern Region : *J. Taylor Thompson* and M.O.T.	Reconstruction of superstructure of trunk road bridge No. 23 over railway, Park Street	The Butterley Co., Ltd.	31,900	Nov., 1950	Dec., 1951
Tibshelf : B.R. and Derbyshire C.C.	B.R., London Midland Region : *J. Briggs* and Oscar Faber & Partners	Reconstruction of High Street overbridge No. 58	Dorman, Long & Co., Ltd.	61,156	May, 1950	July, 1951
Toton	B.R., London Midland Region : *J. Briggs*	Mechanisation and remodelling of up yard, earthwork and drainage	En-Tout Cas Co., Ltd.	159,140	Mar., 1948	Dec., 1950
Arley Tunnel	Ditto	Opening out of portion to form a cutting, new tunnel portal, drainage	L. Fairclough, Ltd. ...	237,884	Apr., 1949	Nov., 1950
Birmingham : New Street	B.R., London Midland Region : *J. Briggs* and Birmingham Corpn.	Reconstruction of superstructure of two bridges : Stour Valley Line	C. A. Norton, Ltd. ...	99,309	Mar., 1949	Sept., 1952
Pemberton and Liverpool Line	B.R., London Midland Region : *J. Briggs*	Construction of underbridge, Rainford By-pass	L. Fairclough, Ltd. ...	44,391	Dec., 1949	Nov., 1950
Willesden	Ditto	Carriage shed—supply and erection of steelwork	John Booth & Son, Ltd.	34,140	Oct., 1949	Aug., 1950
Calverton	Ditto	New colliery branch line	Fletcher & Co. (Contractors), Ltd.	364,682	June, 1950	Dec., 1951
Dunbar to Berwick ...	B.R., Scottish Region : *W. Y. Sandeman*	Superstructure of seven new bridges	P. & W. MacLellan, Ltd.	52,234	Nov., 1949	June, 1950
		Reconstruction of Ayton Culvert No. 146 ...	Holland, Hannen & Cubitts, Ltd.	86,000	Jan., 1949	Aug., 1950
Glasgow : Pollokshields West	B.R., Scottish Region : *W. Y. Sandeman* and Corpn. of Glasgow	Reconstruction of bridge No. 35, Nithsdale Road	Murdoch, Mackenzie, Ltd.	32,128	Apr., 1949	Aug., 1950
Oakley	B.R., Scottish Region : *W. Y. Sandeman*	New marshalling yard earthworks	Whatlings, Ltd. ...	30,124	Sept., 1949	May, 1951
South Bermondsey ...	B.R., Southern Region : *V. A. M. Robertson*	Renewal of superstructure, Spa Road Bridge ...	The Cleveland Bridge & Eng. Co., Ltd.	30,378	Sept., 1949	July, 1950
Bo-Peep Tunnel, St. Leonards	Ditto	New concrete invert and drain, grouting and new C.I. lining	John Mowlem & Co., Ltd.	65,000	Feb., 1950	June, 1950
Battersea Park	Ditto	Part reconstruction of bridge	The Cleveland Bridge & Eng. Co., Ltd.	34,185	Sept., 1950	Apr., 1951
Bermondsey, Rotherhithe New Road	Ditto	Repairs to piers and seven arches	Aubrey Watson, Ltd.	34,578	Dec., 1950	June, 1953
Reading	B.R., Western Region : *A. S. Quartermaine*	Reconstruction of signal works	Tersons, Ltd.	250,293	May, 1948	Aug., 1951
Gloucester Over Junction Bridge	Ditto	Construction of new bridge and demolition of existing bridge over River Severn	L. Fairclough, Ltd. ...	88,364	Oct., 1950	Jan., 1952

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		RAILWAYS (*continued*)		£		
HOME						
London Transport Executive	London Transport Executive	Reconstruction of Bridge EL40 over Grand Surrey Canal	Joseph Westwood & Co., Ltd.	34,000	Nov., 1949	Nov., 1950
		Foundations and earthworks for Stanmore Depot	William Old, Ltd. ...	111,000	Mar., 1950	Mar., 1951
Ditto	Mott, Hay & Anderson ...	Liverpool Street Station : booking hall, escalators, &c.	Kinnear, Moodie & Co., Ltd.	154,000	Sept., 1948	Mar., 1950
		New escalators at Charing Cross	Ditto	68,788	Oct., 1949	Oct., 1950
		New escalators at Waterloo	Ditto	124,881	Mar., 1949	Sept., 1950
ABROAD						
Burma Railways	Rendel, Palmer & Tritton	Five 100ft spans, four 150ft spans	Cleveland Bridge & Eng. Co., Ltd.	49,042	May, 1949	—
		Fifteen 100ft half-through spans	Braithwaite & Co., Ltd.	49,253	Aug., 1947	—
		Ava Bridge steelwork for replacement of two 350ft war-damaged spans	Ditto	146,390	Sept., 1948	—
		RIVER IMPROVEMENT				
HOME						
Diversion of River Don : Steel, Peech & Tozer	Husband & Co.	Straightening of river to assist replanning of steelworks	George Longden & Sons, Ltd.	60,000	Dec., 1948	Mar., 1950
Lee Conservancy Catchment Board	Lee Conservancy Catchment Board	Widening of River Lee at Temple Mills, and ancillary works on tributary channels	Geo. Wimpey & Co., Ltd.	90,000	Aug., 1950	—
River Trent Catchment Board : Gainsborough, Flood - Protection	Lewis & Duvivier	1¼ miles of new flood wall, steel sheet piled and r.c. construction, and other works	Concrete Piling, Ltd.	110,000	Apr., 1950	Jan., 1952
South Bank River Wall	London County Council	Construction of river wall from County Hall to Waterloo Bridge, and reclamation	R. Costain, Ltd.; Cooper, Wettern & Co., Ltd.	400,000	Jan., 1949	Oct., 1950
River Nene Catchment Board	River Nene Catchment Board	River wall, Wisbech, 1430ft of steel sheet piling...	Direct labour	112,000	Apr., 1949	1951
Lever Bros., Port Sunlight, Ltd.	Frederick S. Snow & Partners	Diversion of River Dibbin into r.c. culvert ...	Sir Alfred McAlpine & Son, Ltd.	120,000	Nov., 1950	Part Dec., 1950
		ROADS, BRIDGES AND TUNNELS				
HOME						
TRUNK ROADS (MINISTRY OF TRANSPORT) :						
Lawton Diversion, A.50	Cheshire C.C.	New road and bridge at Lawton Gate...	L. Fairclough, Ltd....	84,576	Jan., 1949	—
Cliffe Lane Diversion, A.50	Ditto	New road and bridge over the canal	Tarmac, Ltd.	79,215	Sept., 1948	Apr., 1950

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		ROADS, BRIDGES AND TUNNELS (*continued*)		£		
HOME						
St. Helens – Southport Road, A.570	Lancashire C.C.	New road and improvement of existing road to 120ft effective width, Windle Smithies to Bickerstaffe	W. Turner (Ardwick), Ltd.; Leo. Fairclough, Ltd.	354,481	Nov., 1946	Nov., 1950
Railway Bridge No. 1 at Lawton, A.50	Cheshire C.C.	Improvement of bridge and approaches	Tarmac, Ltd.	37,750	Dec., 1950	—
St. Oswald's and Eastcourt roads, A.40	Gloucester C.B.C. ...	Reconstruction, including dual 22ft carriageways	Ditto	120,030	Apr., 1947	Mar., 1950
Birchfield Lane to Oldbury Boro', A.41	Worcestershire C.C. ...	Converting approx. 0·86 mile of single carriageway to dual 22ft carriageways	Asphalt & Public Works, Ltd.	34,171	Oct., 1949	Apr., 1950
Shropshire Union Canal, A.483	Montgomery C.C.	Replacement of five canal bridges by culverts ...	Whitley Bros.	66,852	Nov., 1948	—
Bala Lake, A.494	Merioneth C.C.	Realignment and widening of road	Tarmac, Ltd.	88,902	Oct., 1949	—
Rhiwlas Bridge, A.4108	Ditto	Realignment of 1065 lineal yards of road	Direct labour	33,637	July, 1949	—
Neath By-pass, Glamorgan, A.48	Rendel, Palmer and Tritton	High-level bridge and approaches over R. Neath from Briton Ferry to Earlswood (¼ mile)	Cleveland Bridge & Eng. Co., Ltd.	1,401,613	Feb., 1949	—
Merthyr Slip-Road ...	Ditto	Road by-passing Merthyr–Tydfil and connecting A.465 and A.470	Lavender, MacMillan, Ltd.	221,500	June, 1949	—
Yarm Road Railway Bridge, A.19	Stockton-on-Tees B.C. ...	Replacement of bridge and improved approaches	Tarslag, Ltd.	95,800	Jan., 1950	—
Hands Canal Bridge, A.5	Northampton C.C.... ...	Reconstruction and widening of bridge and approaches	Kottler & Heron, Ltd.	36,000	Oct., 1950	—
John St. Larkhall to Strutherhall, A.74	Lanarkshire C.C.	Reconstruction to provide 30ft carriageway for 1200 yards	Shanks & McEwan, Ltd.	44,400	Sept., 1947	Oct., 1950
Millerston to Whitehill Farm Road, A.80	Ditto	Reconstruction to provide 44ft carriageway for 1000 yards	Andrew McCracken...	66,088	Jan., 1949	—
Lesmahagow to Newfield Inn, A.78	Lanarkshire C.C. and Railway Executive	Reconstruction to provide dual 22ft carriageways	McLean & Co.; Murdoch, McKenzie, Ltd.	86,000	Feb., 1949	—
Thames Tunnel at Long Ditton, South-Eastern Gas Board	Coode, Vaughan - Lee, Frank & Gwyther	Construction of two shafts, tunnel under the river and shelters	Edmund Nuttall, Sons & Co. (London), Ltd.	33,300	Nov., 1950	Jan., 1952
Deptford Creek Bridge...	London County Council...	Replacement by bridge, 70ft wide, with dual carriageways, span 70ft (war damage)	Cleveland Bridge & Eng. Co., Ltd.	300,000	Mar., 1947	Sept., 1951
Surrey Lock Bridge ...	Ditto	Replacement of existing bridge by single-leaf rolling lift bridge, span 55ft	Sir Wm. Arrol & Co., Ltd.	103,000	Apr., 1949	Oct., 1951
Battersea Bridge	Ditto	Repairs to damaged ribs, &c.	J.Mowlem & Co., Ltd.	35,000	Mar., 1950	Jan., 1951
Woolwich Ferry	Ditto	Repairs to bridge and dolphins	Holloway Bros. (London), Ltd.	40,000	—	—
Joint C.Cs. of Northumberland and Durham	Mott, Hay & Anderson...	Tunnels under River Tyne: Contract No. 1, pedestrian and cyclist tunnels and escalators	Charles Brand & Son, Ltd.	633,000	Sept., 1947	June, 1951

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main Contractors	Estimated cost	Date of starting	Date of completion
		ROADS, BRIDGES AND TUNNELS (*continued*)				
HOME				£		
Tees Conservancy... ...	Rendel, Palmer & Tritton	Approach road to new Tees dock including rail and road bridges	Geo. Wimpey & Co., Ltd.	245,000	Jan., 1949	Dec., 1950
Essex C.C. and B.R. Ex.	Ditto	Bridge and approach to carry road under railway at Grove Green Road, Leytonstone	W. & C. French, Ltd.	110,000	1949	Oct., 1950
ABROAD						
Baghdad Railway Bridge: Iraq Govt.	Coode, Vaughan - Lee, Frank & Gwyther	Railway and road bridge over River Tigris and approach viaducts	Holloway Bros. (London), Ltd.	962,000	Nov., 1945	Mar., 1950
Govt. of Tanganyika ...	Sir Alexander Gibb & Partners	Construction of trunk roads, including bridges, and ancillary works	Stirling-Astaldi (East Africa) and others	2,500,000 (approx.)	Oct., 1949	—
Govt. of Burma	Rendel, Palmer & Tritton	Twenty 100ft spans, two 80ft spans	P. & W. Maclellan, Ltd.	62,704	Apr., 1950	—
		Callender Hamilton U.C. bridges : three 95ft, one 110ft, one 125ft, two 140ft. (single track), two 94ft 6in, four 110ft 6in (double track)	Painter Bros., Ltd. ...	58,805	Aug., 1950	—
Nyasaland Govt.	Scott & Wilson	116 miles of roads, Blantyre-Chileka, Limbe-Cholo	Gilbert-Ash, Ltd. ...	400,000	Apr., 1949	Dec., 1952
		WATER SUPPLY				
HOME						
Burgh of Dumfries ...	Babtie, Shaw & Morton...	Water mains, 12in to 18in dia., 6¼ miles ; filtration plant, 1,750,000-gallon and 400,000-gallon storage tanks	A. A. Stuart & Sons (Glasgow), Ltd.; Bell Bros. (Manchester, 1927), Ltd.	195,000	May, 1950	Jan., 1951
Burgh of Grangemouth...	Ditto	Water main, steel and spun iron, 27in and 30in dia., 7½ miles	Whatlings, Ltd.; Stanton Ironworks Co., Ltd.; Glenfield & Kennedy, Ltd.	180,000	Aug., 1949	Mar., 1951
Burgh of Stornoway ...	Ditto	Water treatment works, buildings and storage tanks	H. M. Murray & Co.; Jas. Ritchie (Bldrs.), Ltd.; Bell Bros. (Manchester, 1927), Ltd.	87,000	1949	Mar., 1951
Sutherland C.C. : Helmsdale and District	Ditto	Water main, steel, 5in dia., 10¼ miles with stream intake and tanks	A. Somerville & Co., Ltd.	31,500	Jan., 1950	July, 1951
Perthshire - Clackmannanshire: Loch Turret scheme	Ditto	Reservoir at Loch Turret, 38 miles of trunk mains, 36in to 15in dia., and other works	Not yet settled... ...	1,850,000	1951	—
Stevenage Development Corpn.	D. Balfour & Sons	Bore-holes...	G. Stow & Co., Ltd....	25,500	Dec., 1949	—
		Rising main	Geo. Wimpey & Co., Ltd.	67,000	1951	—
		Reservoir	Wm. Moss & Sons, Ltd.	40,000	June, 1950	—

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		WATER SUPPLY (*continued*)		£		
HOME						
Leighton Buzzard U.D.C.	D. Balfour & Sons... ...	Bore-hole pump-house, filtration and pumping plant	Betts & Faulkner, Ltd.; Paterson Eng., Ltd.; Harland Eng., Ltd.	33,000	July, 1950	—
Osgoldcross R.D.C. ...	Ditto	Rural water supply	Wm. Wilson & Co., Ltd.	36,000	Mar., 1950	—
Birmingham Corpn. Water Dept.	Sir William Halcrow & Partners	Dam across River Claerwen	Edmund Nuttall, Sons & Co. (London), Ltd.	1,800,000	July, 1946	1952
Elan Aqueduct: Fourth Main	Birmingham Corpn. Water Dept.	First stage: Laying approx. 2¼ miles of 62in dia. concrete-lined steel pipes	Direct labour	77,000	Oct., 1948	Dec., 1950
		Second stage: 3½ miles of 62in dia. pipes	Ditto	130,000	Apr., 1950	1951
		Supply of steel pipes	Clayton, Son & Co., Ltd.	178,000	—	—
		Rapid gravity filters at Frankley Treatment Works	Direct labour	60,000	July, 1948	1951
		Laying approx. 1½ miles 36in dia. trunk main ...	Whittaker Ellis, Ltd.	38,000	Oct., 1950	1951
		Supply of pipes	Clayton, Son & Co., Ltd.	26,000	—	—
Birmingham Corpn. Water Dept.	Ditto	Laying approx. 1½ miles of 24in dia. trunk main...	Whittaker Ellis, Ltd.	28,500	Nov., 1950	1951
		Supply of pipes	Clayton, Son & Co., Ltd.	21,000	—	—
Brackley R.D.C.	Binnie, Deacon & Gourley	Supply of spun iron pipes	Stanton Ironworks Co., Ltd.	20,000	1949	—
		Supply of asbestos-cement pipes	Turners Asbestos Cement Co., Ltd.	67,000	1949	—
		Pipe-laying: 6 miles 10/12in spun iron and 70 miles 10/3in asbestos cement	Kottler & Heron, Ltd.	92,000	1950	—
Bucks Water Board: Great Ouse Scheme	Ditto	Pumping machinery for Foxcote Nos. 1 and 2 pumping stations	Sulzer Bros. (London), Ltd.	24,000	1948	—
		Filter equipment at Foxcote...	Paterson Eng. Co., Ltd.	23,000	1948	—
		Supply of spun iron pipes	Stanton Ironworks Co., Ltd.	48,000	1948	—
		Supply of steel pipes	Stewarts & Lloyds, Ltd.	50,000	1948	—
		Laying approx. 11 miles spun iron mains, 18/12in dia., 13 miles 10in steel mains; other works	Bridgwater Bros., Ltd.	54,000	1949	—
		Buildings for pumping stations and treatment works	Myton, Ltd.	48,000	1950	—

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		WATER SUPPLY (*continued*)		£		
HOME						
Bedford R.D.C.	Binnie, Deacon & Gourley	Supply of asbestos-cement pipes	Turners Asbestos Cement Co.	51,000	1950	—
		Three r.c. water towers, capacity 310,000 galls.	Mitchell Construction Co.	30,000	1950	—
Belfast City and District Water Commissioners: Mourne Mountains Scheme	Ditto	Aqueduct, 53in dia., approx. 4¾ miles long, and screening chamber	McLaughlin & Harvey, Ltd.	155,000	1947	1950
		Intake works in Annalong Valley; tunnel to Silent Valley, approx. 2½ miles long	A. M. Carmichael, Ltd.	200,000	1947	—
Biggleswade Water Board: Meppershall Scheme	Ditto	Three bore-holes, approx. 230ft deep	George Stow Co., Ltd.	38,000	1947	1950
		Iron-removal plant	Candy Filter Co., Ltd.	20,000	1948	—
		R.C. water tower, with steel tank, 300,000 galls. capacity	Holland & Hannen & Cubitts, Ltd.	29,000	1949	1950
		Pump-houses and treatment plant buildings ...	M. & F. Foster, Ltd.	31,000	1949	—
Chichester R.D.C.: Stoughton	Ditto	Two booster stations; covered service reservoir (200,000 galls.); 15 miles of spun iron mains	S. M. Tidy (Public Works), Ltd.	31,000	1949	—
Caithness C.C.	Ditto	Supply of spun iron pipes	Cochranes, Ltd. ...	288,000	1950	—
		Water turbines and pumps at Hoy waterworks...	Gilbert Gilkes & Gordon, Ltd.	22,000	1950	—
		Pressure filtration plant	Candy Filter Co., Ltd.	23,000	1950	—
Lanarkshire Water: Daer Scheme	Ditto	Impounding reservoir: earthen dam, 135ft high and ¼ mile long, capacity 5300 m.g.	Direct labour	1,042,000	1948	—
		Supply of valves, &c., for pipe-lines and head-works	Glenfield & Kennedy, Ltd.	22,000	1949	—
		Supply of 45/21in dia. steel pipes	Stewarts & Lloyds, Ltd.	1,012,000	1949	—
		Water-treatment plant	United Filters & Eng., Ltd.	87,000	1949	—
		Pipe-laying: Pipe-line No. 1	Hugh Leggat, Ltd. ...	188,000	1950	—
Swansea Corporation: Usk Scheme	Ditto	Usk reservoir: earthen dam, 470 yards long and 110ft high; diversion tunnel; overflow channel; road diversions and supply tunnel	Richard Costain, Ltd.	1,097,000	1949	—
		Supply of 28¾–20½in dia. steel pipes	Stewarts & Lloyds, Ltd.	422,000	1949	—
		Treatment plant equipment	Permutit Co., Ltd. ...	52,000	1950	—
Taf Fechan Water Supply	Ditto	Filtration plant: 10 mech. filters, 6·2 m.g.d. ...	Paterson Eng. Co., Ltd.	45,000	1948	—

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		WATER SUPPLY (*continued*)		£		
HOME						
Taf Fechan Water Supply	Binnie, Deacon & Gourley	Extension of filter-house and construction of mixing tanks and clear-water tank	J. E. Jones & Co., Ltd.	96,000	1950	—
Warrington Corporation	Ditto	Covered service reservoir, 25ft deep, and 6 m.g. capacity	Holland & Hannen & Cubitts, Ltd.	62,000	1949	—
Coventry Corporation: River Severn Scheme	Binnie, Deacon and Gourley; Herbert Lapworth Partners	Meriden No. 2 covered service reservoir, 25ft deep, capacity 10 m.g.	Gilbert-Ash, Ltd. ...	93,000	1947	1950
		Bredon Hill covered service reservoir, 108ft dia., capacity 1½ m.g., and other works	R. G. Horton (Engineers), Ltd.	75,000	1948	1950
		Steel pipes	South Durham Steel, Iron and Coal Co., Ltd.	512,000	1947	—
		Valves and fittings	Glenfield and Kennedy, Ltd.	24,000	1947	—
		Section of Severn aqueduct, 27in. dia. steel main, 7 miles	Direct labour	45,000	1947	—
		Pipe laying: 27in and 30in dia steel main, 15 miles	Butterley Co., Ltd. ...	101,000	1948	—
		Pipe laying: 27in dia. steel main, 16 miles	Thos. Bugbird & Son, Ltd.	115,000	1948	—
		Water treatment plant at Strensham	Candy Filter Co., Ltd.	50,000	1949	—
		Pumping plant at Upton and Strensham, three 130,000 g.p.h. units at each station	Sulzer Bros., Ltd. ...	44,000	1949	—
		Treatment works, pumping station and contact tank at Strensham	Hadsphaltic Constr. Co., Ltd.	230,000	1950	—
		Intake and pumping station at Upton	Thos. Vale & Sons, Ltd.	45,000	1950	—
Leslie Town Council ...	Blyth & Blyth	Reservoir, earthen dam, 200 yards by 45ft high, and mains	Jacksons (Edin.), Ltd.	32,000	Jan., 1948	1951
Shetland C.C.	Ditto	Part I of county water scheme for Burra Isle ...	A. Robertson & Co., Ltd.	50,000	Aug., 1950	Feb., 1952
Diss U.D.C. and Depwade R.D.C.	A. P. I. Cotterell & Son	Mains, water towers and reorganisation of existing waterworks	Ed. Thompson, Ltd.; Vibrated Concrete Constr. Co., Ltd.	179,000	Sept., 1946	—
Walsingham R.D.C. ...	Ditto	Mains, reservoir and pumping station...	Stanton Ironworks Co., Ltd.; Glenfield & Kennedy, Ltd.; W. Ames, Ltd.; Norgate Bros., Ltd.	105,000	July, 1949	—
Warminster and Westbury R.D.C. (North-East Area)	Ditto	25 miles of water mains, 6in to 2in	W. E. Chivers & Sons, Ltd., Devizes; Cochranes (Middlesbrough), Ltd.	59,000	June, 1949	Aug., 1950

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		WATER SUPPLY (*continued*)		£		
HOME						
Wayland R.D.C.	A. P. I. Cotterell & Son	Supply spun iron pipes, 9in to 3in	Staveley Iron & Chemical Co., Ltd.	43,000	1949	—
Galashiels T.C.	Crouch & Hogg	3¼ miles of 12in dia. main	John Best (Contractors), Ltd.	31,000	1948	1950
Largs T.C.	Ditto	2½ miles of 21in dia. main	Clydeside Constr. Co., Ltd.	32,000	Sept., 1947	July, 1950
Wigtown C.C.	Ditto	Regional Water Scheme: 21 miles 6in and 4in dia. mains	Kings & Co., Ltd. ...	52,000	Apr., 1950	1951
		Penwhirn Burn dam and 4½ miles of 24in dia. main	Holland & Hannen and Cubitts (Scotland), Ltd.	250,000	Aug., 1950	1953
Glasgow Corpn. Water Dept.	Glasgow Corpn. Water Dept.	East main works: Pipelaying Contracts:—				
		(Part) Outlet works at Milngavie reservoirs ...	Whatlings, Ltd. ...	44,000	Nov., 1949	—
		Outlet works at Milngavie reservoirs	Ditto	26,000	June, 1948	—
		5600 lineal yards, 36in dia.	Wilson, Kinmond & Marr, Ltd.	73,000	Sept., 1945	Sept., 1947
		5040 lineal yards, 36in dia....	Crowley, Russell & Co., Ltd.	65,500	Nov., 1946	Oct., 1949
		4014 lineal yards, 36in dia.	W. & J. R. Watson, Ltd.	45,000	June, 1947	May, 1949
		2945 lineal yards, 30in dia.	A. A. Stuart & Sons (Glasgow), Ltd.	32,500	Feb., 1948	May, 1949
		1894 lineal yards, 30in dia. and 349 lineal yards, 24in dia.	Holland & Hannen & Cubitts, Ltd.	25,000	Jan., 1949	Apr., 1950
		3020 lineal yards, 24in dia.	Andrew McCracken & Co., Ltd.	26,000	May, 1949	July, 1950
		At Buchley pumping station...	Wilson, Kinmond & Marr, Ltd.	2,000	—	—
	Glasgow Corpn. Water Dept. and F. A. Macdonald & Partners	Ruchazie reservoir	Melville, Dundas & Whitson, Ltd.	67,000	June, 1945	July, 1947
	Glasgow Corpn. Water Dept.	Buchley pumping station	Angus M. MacDougall & Co., Ltd.	31,000	Aug., 1948	Apr., 1950
		Pipe bridge over River Clyde	Wm. Baird & Son, Ld.	3,500	Mar., 1949	Sept., 1949
		Supply of pipes	The Staveley Iron & Chemical Co., Ltd.;	284,000	—	—
			The Stanton Ironworks Co., Ltd.		—	—
	Ditto	West Main Works: Outlet works at Milngavie reservoirs	Whatlings, Ltd. ...	29,000	Nov., 1949	—

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		WATER SUPPLY (*continued*)		£		
HOME						
Glasgow Corpn. Water Dept.	Glasgow Corpn. Water Dept.	West Main Works: Supply of pipes (part) ...	The Staveley Iron & Chemical Co., Ltd.	7,000	—	—
Bristol Waterworks Co.	T. & C. Hawksley and A. M. Paterson	Chew Valley Scheme: Chew Stoke reservoir ...	A. E. Farr, Ltd. ...	698,365	1950	1954
South Essex Waterworks Co.	T. & C. Hawksley; Binnie, Deacon & Gourley; H. G. Ramsay	Second instalment of Stour Supply Scheme, 1935: Extension of treatment works, additional electrically-driven pumping plant	W. & C. French, Ltd., and others	104,000	1950	1952
Consett Ironworks Co., Ltd.	T. & C. Hawksley ...	Water supply from River Derwent: Intake, pumping station and pipe-lines	Henry Ayton & Sons; Pulsometer Engineering Co., Ltd.	34,000	1948	1951
South Staffordshire Waterworks Co.	G. H. Hill & Sons (Manchester)	Blithfield impounding reservoir	John Mowlem & Co., Ltd.	850,000	1947	1953
Huddersfield Corpn. ...	Ditto	Digley impounding reservoir	Lehane, Mackenzie & Shand, Ltd.	750,000	1946	1952
Staffordshire Potteries Water Board: Peckforton Scheme	Ditto	Trunk mains	Whittaker Ellis, Ltd.	220,000	1947	1951
		Trunk mains	George Wimpey & Co., Ltd.	365,000	1948	1951
		Bore-holes...	E. Timmins & Sons, Ltd.	45,000	1947	1951
		Bore-holes...	John Thom, Ltd. ...	48,500	1950	1952
		Service reservoir	G. Percy Trentham, Ltd.	96,000	1949	1951
Congleton Corporation...	Ditto	Trunk main and service reservoir	A. E. Farr, Ltd. ...	47,000	1948	1951
		Trunk main	Pipewell Construction Co., Ltd.	43,000	1950	1951
Bedford Corporation ...	Ditto	Reconditioning of reservoirs	R. G. Horton (Engrs.) Ltd.	116,000	1949	1951
West Cheshire Water Board	Ditto	Reconditioning of pumping station, bore-holes, &c.	Various	45,000	1950	1953
Exmouth U.D.C.	Ditto	Service reservoir	R. G. Horton (Engrs.) Ltd.	38,000	1950	1951
Towcester R.D.C.	Howard Humphreys & Sons	Regional water supply	Bridgewater Bros., Ltd.; Norton Griffiths; others not yet settled	210,000	1950–51	1951–52
East Kesteven R.D.C. ...	Ditto	Pumping plant, reservoir and water mains	Not yet let	330,000	1951	—
Steel, Peech & Tozer ...	Husband & Co.	Pumping and purification plant, 24 m.g.d. from River Don	George Longden & Son, Ltd.	250,000	Oct., 1948	Nov., 1950

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		WATER SUPPLY (*continued*)		£		
HOME						
South Kesteven R.D.C....	G. B. Kershaw & Kaufman	37 miles mains, 9in to 3in, and booster stations...	Stamford Constr., Ltd.	130,000	Dec., 1947	Mar., 1951
		7 miles mains, 12in to 4in, reservoir and booster station	Edward Thompson, Ltd.	40,000	Dec., 1948	Mar., 1951
Whittlesey U.D.C.... ...	Ditto	25 miles mains, 4in and 3in, pumping station and reservoir	Stamford Constr., Ltd.	53,000	Apr., 1949	Apr., 1951
Docking R.D.C., Norfolk	Sir Cyril Kirkpatrick & Partners	40 miles of water main, pumping station, reservoir and water tower	F. W. Shanks, Ltd....	200,000	Sept., 1948	—
		30 miles of water main	Ditto	80,000	Apr., 1950	—
Weir Wood Water Board: Crawley Development Corpn., East Sussex C.C. and others	Herbert Lapworth Partners	Impounding reservoir	Richard Costain, Ltd.	420,000	Sept., 1950	1953
		Steel pipes, 24in to 12in...	Stewarts & Lloyds, Ltd.	80,000	Feb., 1950	—
		Service reservoir, 4 m.g. capacity (part of £1,089,000 scheme)	Not yet placed ...	50,000	1951	1952
Mid-Sussex Joint Water Board	Ditto	Filtration plant	Candy Filter Co. ...	13,000	Aug., 1950	1952
		Mains (part of £50,000 scheme)	Staveley Coal & Iron Co., Ltd.	2,000	—	—
Yeovil R.D.C.	Ditto	Preliminary work on impounding scheme, based on Sutton Bingham reservoir (£750,000)	Soil Mechanics, Ltd...	5,000	1950	1951
Workington Corpn. ...	Ditto	Service reservoir, 2 m.g. capacity...	John Laing & Son, Ltd.	42,000	1948	1950
		Mains, 18in to 8in steel, cast iron...	Horseley Piggott, Ltd., and Stanton Ironworks Co., Ltd.	33,000	1950	1951
		Main laying	G. Wimpey & Co., Ltd.	19,000	1950	1951
		Pumping station (£100,000 scheme)	A. A. Stuart and Harland Eng. Co.	7,000	1949	1951
Barnsley Corpn.	Ditto	Two pumping stations on Ingbirchworth gathering ground	Cementation Co., Ltd., and others	35,000	1948	1951
Boston Corpn.	Ditto	Emergency works and part of £100,000 scheme...	Gwynnes Pumps, Ltd.; F. Robinson; Geo. Stow & Co., Ltd.	12,000	1950	—
Crowborough District Water Co.	Ditto	Two bore-holes...	C. Isler & Co., Ltd....	8,000	1949	1950
		Filtration plant (part of £90,000 scheme)	Not yet let	12,000	1951	1952
South Devon Water Board: Stanborough Main and Reservoir	Lemon & Blizard	18in to 6in dia. mains, 500,000 galls. r.c. reservoir	Richard Costain, Ltd., and others	140,000	Sept., 1949	Sept., 1951

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		WATER SUPPLY (*continued*)		£		
HOME						
Street U.D.C.	Lemon & Blizard	15in dia. water mains	Intrade, Ltd., and others	42,000	July, 1950	Jan., 1952
Kingsbridge R.D.C. ...	Ditto	12in to 3in dia. mains, 50,000 galls. r.c. reservoir	Richard Costain, Ltd., and others	60,000	Oct., 1950	Apr., 1952
North Cornwall Joint Water Board	Ditto	Extension of filtration plant	S. Foster Deacon ; Paterson Eng. Co., Ltd.	40,000	Jan., 1951	May, 1952
Cosford R.D.C.	Ditto	Pipes and valves	Stanton Ironworks Co., Ltd. ; Glenfield & Kennedy, Ltd.	160,000	Nov., 1950	Apr., 1952
Thingoe and Thedwastre R.D.C.	Ditto	Bore-hole and booster pumps for three pumping stations, 40 miles 15in to 6in dia. trunk mains, three 250,000 and one 50,000 galls. r.c. water towers	Pulsometer Engineering Co., Ltd. ; Biggs, Wall & Co., Ltd. ; James Miller & Partners ; Stanton Ironworks Co., Ltd. ; J. Blakeborough & Sons, Ltd.	225,000	Jan., 1950	Jan., 1952
Winchester R.D.C. : Totford Water Supply	Ditto	12in to 3in dia. mains, one 500,000, one 100,000 galls., r.c. service reservoir, duplicate bore-hole pumping plant	Norwest Construction Co., Ltd. ; Sulzer Bros. (London), Ld.	185,000	Mar., 1950	1951
Birchmoor Waterworks Extensions	Ditto	18in dia. bore-hole, 18in dia. pumping main, 1,000,000 galls. service reservoir and other works	Geo. Stow & Co., Ltd.; others not yet settled	75,000	Oct., 1950	1952
Ryde Corpn. : Knighton Waterworks	Ditto	Installation of electrically driven pumping plant, two 15in dia. bore-holes	Harland Eng. Co., Ltd. : Le Grand, Sutcliff & Gell, Ltd.	41,000	1948	1951
Berwickshire Water, Watch Water and Earnscleugh Schemes	J. & A. Leslie & Reid ...	Watch water reservoir, 500 m.g.mechanical filters, tanks and mains from 21in dia.	R. Baillie & Sons, Ltd.; W. P. Macnamara ; Jas. Turner & Co., Ltd., and others	1,065,000	Oct., 1948	1953
Campbeltown Water ...	Ditto	Reservoir, mechanical filters and piping	Whatlings, Ltd. ...	122,000	Mar., 1949	1951
Laich of Moray Water Board	Ditto	Reservoir, filters, tanks and piping	Cochranes, Ltd. ; A. Robertson & Co.	800,000	Oct., 1949	1953
Fife C.C.	Ditto	Concrete dam and access road	Holland & Hannen & Cubitts, Ltd.; John Best, Ltd.	938,000	June, 1949	1953
West Lothian C.C. ...	Ditto	Mechanical filters and filter house at Forrestburn, sand filters at Morton	Bell Bros., Ltd. ; R. J. Macleod ; Jacksons, Ltd.	80,000	Sept., 1949	1952

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		WATER SUPPLY (*continued*)		£		
HOME						
Liverpool Corpn.	Liverpool Corpn. Water Works	Prescott No. 4 reservoir, 174 m.g. capacity and other works	Wm. Eaves & Co., Ltd.	740,000	Aug., 1948	Aug., 1951
Vyrnwy Aqueduct: Hirnant Tunnel	Ditto	Repairs and lining of tunnel, 2¼ miles and 7ft dia.	Sir Alfred McAlpine & Sons, Ltd.	145,000	Oct., 1948	Aug., 1950
Vyrnwy Aqueduct: Fourth Instalment Pipe-line		6½ miles of 39in dia. steel pipe-line and other works	Earth & General Contracts, Ltd.; South Durham Steel & Iron Co., Ltd.	276,000	Mar., 1949	Jan., 1951
		7 miles 39in and 42in dia. steel pipe-line and other works	A. Monk & Co., Ltd.; South Durham Steel & Iron Co., Ltd.	296,000	Jan., 1948	May, 1950
Haweswater Aqueduct ...	Manchester Corpn. Water Works	Construction of Bowland Forest Tunnel (10 miles); three shafts and short lengths of cut and cover	The Cementation Co., Ltd.	2,727,000	Mar., 1948	—
		Construction of Marl Hill Tunnel (2½ miles) and short lengths of cut and cover	A. Waddington & Son, Ltd.	713,658	Oct., 1950	—
		Construction of Haslingden and Walmersley Tunnels (11 miles). Three shafts and short lengths of cut and cover	Edmund Nuttall Sons & Co. (London), Ltd.	2,544,913	Aug., 1949	—
Haweswater Aqueduct: Roch Siphon		Laying approx. 8000 yards of 48in dia. steel pipes	Direct labour	320,000	Aug., 1950	—
Thirlmere Aqueduct ...		Installation of fifteen booster stations (containing seventy-five pumps). Valve modifications, &c.	Vickers-Armstrongs, Ltd., and others	240,000	1948	Nov., 1950
		Extension of Thirlmere Aqueduct 4th pipe-line (8½ miles of 54in main)	Direct labour	670,000	May, 1948	—
		Scraping and lining of 29,000 yards of 36in, 40in and 44in pipes	Direct labour; Preload (Great Britain), Ltd.	116,200	Sept., 1949	—
Davyhulme to Carrington Main	Ditto	Laying approx. 6200 yards of 27in spun iron pipes	Direct labour	126,000	May, 1949	—
Metropolitan Water Board	Metropolitan Water Board	First half of a filtration works at Ashford Common, including sixteen filter beds and other works	John Mowlem & Co., Ltd.	2,287,000	Sept., 1947	1952
		Second half of a filtration works at Ashford Common	Ditto	1,704,000	Sept., 1949	1953
		Contact and balancing tank, pumps, mains, and chemical treatment plant at Barnes works	McLaughlin & Harvey, Ltd.	197,000	Mar., 1948	—
		Sinking a well at Bexley and driving headings to connect up to existing bore-holes Nos. 1 and 2	Le Grand Sutcliff & Gell, Ltd.	38,000	May, 1948	Mar., 1950
		Installation of bore-hole pump, contact tank, and chemical treatment plant at Bexley	J. B. Edwards (Whyteleafe), Ltd.	34,250	Mar., 1948	Apr., 1950
		Extension of pumping station at Fortis Green ...	Thomas & Edge, Ltd.; Wm. Press & Sons	47,000	May, 1948	1951

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		WATER SUPPLY *(continued)*		£		
HOME						
Metropolitan Water Board	Metropolitan Water Board	Construction of Sunnyside pumping station at Hampton works	F. R. Hipperson & Sons, Ltd.; W. H. Allen Sons & Co., Ltd.	108,000	May, 1947	1952
		Reconstruction of filter beds at Hampton works	Direct labour	196,000	Mar., 1947	—
		Experimental purification plant at Kempton Park works	Candy Filter Co., Ltd; Paterson Eng. Co., Ltd.; J. B. Edwards & Co., (Whyteleafe), Ltd.	55,000	Feb., 1947	Apr., 1950
		Interim scheme of reconstruction at Lee Bridge works	F. R. Hipperson & Son, Ltd.; Braithwaite & Co., Engineers, Ltd.; William Press & Son	313,500	Apr., 1946	1951
		Installing ten rotary strainers and ancillary works at Lee Bridge	Glenfield & Kennedy, Ltd. (contract for installation not let)	102,000	June, 1949	Mar., 1952
		Additional flood prevention works, Lee Valley...	Direct labour; W. & C. French, Ltd.	43,000	Feb., 1949	Dec., 1950
		54in and 48in mains, Ashford Common to Kempton Park and Hampton Hill	J. L. Eve Constr. Co., Ltd.; South Durham Steel & Iron Co., Ltd.	495,800	July, 1948	Mar., 1951
		60in main, Kempton to Cricklewood; Section No. 1, Kempton Park to Wesley Avenue	J. B. Edwards & Co., (Whyteleafe), Ltd.; South Durham Steel & Iron Co., Ltd., and others	456,000	Oct., 1948	Apr., 1951
		60in main, Kempton to Cricklewood; Section No. 2, Wesley Avenue to Lyndhurst Avenue	The Cementation Co., Ltd.; South Durham Steel & Iron Co., Ltd., and others	345,000	Nov., 1949	1951
		60in main, Kempton to Cricklewood: Section No. 3, Lyndhurst Avenue to Abbey Avenue	J. L. Eve Constr. Co., Ltd.; South Durham Steel & Iron Co., Ltd., and others	450,500	May, 1950	Nov., 1951
		60in main, Kempton to Cricklewood: Section No. 4, Abbey Avenue to Cricklewood. (Contract for mainlaying not let)	South Durham Steel & Iron Co., Ltd.; Victaulic Co., Ltd.; Head Wrightson & Co., Ltd.	498,500	—	—

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		WATER SUPPLY *(continued)*		£		
HOME						
Metropolitan Water Board	Metropolitan Water Board and Sir William Halcrow & Partners	75in main in tunnel, Thames to Lee Valley ...	—	4,945,000	—	—
		Experimental length	Kinnear Moodie & Co.	—	1950	1951
	Metropolitan Water Board	Taking up disused New River mains between Stoke Newington and New River Head	William Press & Son	51,200	Jan., 1950	Nov., 1950
		Reconstruction of filter beds at Surbiton works...	Direct labour	40,000	Feb., 1947	—
		Four additional filter beds at Walton works ...	John Mowlem & Co., Ltd.	345,000	Oct., 1947	June, 1950
		Contact and balancing tank and mains connections at Walton works	J. Jarvis & Sons, Ltd.	107,000	June, 1950	June, 1952
		Chingford South reservoir	John Mowlem & Co., Ltd.	2,055,000	Sept., 1935	1951
Southampton Corpn. Waterworks	L. G. Mouchel & Partners, Ltd.	Two reservoirs, 2,800,000 galls. and 4,800,000 galls.	Collier & Catley, Ltd.	95,500	Mar., 1948	1951
Tees Valley Water Board	Ditto	Pumping stations and reservoirs, &c.	Brims & Co., Ltd.; W. G. Turriff, Ltd.	500,000	May, 1947	—
Tynemouth C.B.	Ditto	Water tank, 2,500,000 galls., Fontburn	Purdie Lumsden & Co., Ltd.	61,500	Oct., 1948	—
Wokingham R.D.C. ...	Ditto	Reservoir, 1½ million galls., Bowsey Hill	Collier & Catley, Ltd.	33,000	Oct., 1949	May, 1951
Worcester C.C.	Ditto	Settling tanks, River Severn wall, culvert, intake and screen chamber, filters, pump-house, &c.	Thos. Vale & Sons, Ltd.; Currall, Lewis & Martin; Hadsphaltic Construction Co., Ltd.	137,000	Aug., 1946	—
Borough of Worthing ...	Ditto	Reservoir, 2,000,000 galls., Patching Hill	Wates, Ltd.	40,500	Dec., 1949	1951
Huntingdon R.D.C. ...	Pick, Everard, Keay & Gimson	15 miles mains, 8in to 3in dia., and pumping station	J. B. Hill, Ltd.; Emerson & Atkin, Ltd., and others	40,000	Aug., 1950	—
Brixworth R.D.: Mid-Northamptonshire Water Board	Ditto	30 miles mains, 10in to 3in dia., two r.c. service reservoirs	Kottler & Heron, Ltd.	100,000	Mar., 1949	—
Swadlincote and Ashbys Joint Water Board	Ditto	Service reservoir and 10 miles 12in mains... ...	Hussey, Egan & Pickmere, Ltd.; P. & G. McNamara, Ltd.	83,000	Sept., 1950	—
Lutterworth R.D.C. ...	Ditto	Service reservoir and 16 miles mains, 7in to 3in dia.	F. W. Young & Co.; J. Mannion & Co.	68,000	Feb., 1950	—

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		WATER SUPPLY *(continued)*		£		
HOME						
Oundle and Thrapston R.D.C.	Pick, Everard, Keay & Gimson	35 miles of water main, 6in to 3in dia., with wells, &c.	Singfield Constr., Ltd.; Edward J. Edwards (Norwich) Ltd.; Stanton Ironworks Co., Ltd.	82,000	Jan., 1949	Feb., 1951
Daventry R.D.C.	Ditto	11¼ miles water main, pumping stations, service reservoirs, &c., and r.c. water towers	T. Lowe & Son, Ltd.; Whitehouse (Mitcheldean), Ltd. Bosworth & Wakeford, Ltd.	41,000	Sept., 1948	Nov., 1950
Regional Water Schemes for Deben R.D.C.	Ditto	70 miles of water mains, 10in to 3in dia., pumping station and r.c. water towers	Edward J. Edwards (Norwich), Ltd.; and others	260,000	Oct., 1950	—
Dearne Valley Water Board	W. H. Radford & Son...	Softening and filtration plant with steel reservoir, 550,000 galls.; Darfield reservoir, 250,000 gails.	T. H. Watford, Candy Filter Co.; Horseley Bridge & Thos. Piggott, Ltd.; E. Sutcliffe (Contractors), Ltd.	33,000	Nov., 1948	—
Dunmow R.D.C.	Edward Sandeman, Kennard & Partners	25 miles pipes, 3in to 9in dia.	Delaney & Brennan...	50,000	1948	1950
Hemel Hempstead Corpn.	Ditto	Service reservoir, 3 m.g. capacity	Wm. Old, Ltd.... ...	47,500	1950	1952
Northallerton and District Water Board	Ditto	Impounding reservoir, pressure filtration plant, and filter-house	Stewart & Partners; United Filters & Eng., Ltd.; Walter Thompson (Contractors), Ltd.	200,000	1949	1952
North-West Sussex Joint Water Board	Ditto	15 miles 9in dia. pipes, service reservoir, 1 m.g. capacity	Lavender, McMillan, Ltd., and J. W. Ellingham, Ltd.	90,000	1949	1951
		16 miles 18in dia. pipes, pumping and filtration plant	The Staveley Iron & Chemical Co., Ltd., and others	300,000	1950	1953
Clare R.D.C.	Silcock & Simpson ...	Bore-hole, pumps, pumping station mains, reservoir and water tower	Trevor Cons. Co., Ltd.	104,000	Jan., 1950	June, 1951
Newmarket R.D.C. ...	Ditto	Water mains, pumping station, reservoir and booster station	Biggs Wall & Co.; T. C. Stewart, Ltd.	42,500	Nov., 1950	Aug., 1952
Downham R.D.C.... ...	Ditto	Water mains	F. W. Shanks, Ltd. ...	26,600	Feb., 1951	Feb., 1952
		Pumping station and water tower	Not yet let	33,000	Mar., 1951	Mar., 1952
Spalding R.D.C.	Ditto	Bore-hole pumping plant, water mains and water tower	Not yet let	110,000	June, 1951	—

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		WATER SUPPLY (*continued*)		£		
HOME						
Tenby B.C., Haverfordwest B.C. and R.D.C.	John Taylor & Sons ...	Reservoir and duplicate trunk main	Paterson & Dickinson, Ltd.	198,000	Jan., 1951	—
Tenby Corpn....	Ditto	Reservoir and trunk main	Ditto	157,000	Jan., 1951	—
Haverfordwest R.D.C. ...	Ditto	Reservoir and mains	Davies, Middleton & Davies, Ltd.	120,000	Nov., 1948	—
Marlborough and Ramsbury R.D.C.	Ditto	Reservoir, water tower and mains	R. E. Rowlands, Ltd.	94,000	Feb., 1950	—
Tees Valley Water Board	Tees Valley Water Board: *T. S. R. Winter*	Low Worsall pumping station	Brims & Co., Ltd. ; Fordy & Son ; Gwynnes Pumps, Ltd.	97,052	Apr., 1947	Sept., 1950
		Low Worsall to Wilton 27in raw water main, 13½ miles	Tarslag, Ltd. ; Cochranes (Middlesbro') Foundry, Ltd. ; Glenfield & Kennedy, Ltd.	325,953	Aug., 1947	Sept., 1950
		Covered service reservoir at Ormesby of 9 m.g. capacity. Ormesby pumping station	W. G. Turriff, Ltd. ; W. F. Richardson ; Harland Eng. Co., Ltd.	193,000	Oct., 1947	Jan., 1951
		36in main Sadberge to Long Newton, 1¼ miles ...	Tarslag, Ltd. ; Cochranes (Middlesbro') Foundry, Ltd. ; Glenfield & Kennedy, Ltd.	69,553	July, 1949	June, 1950
		Filtration plant and pumping stations at Broken Scar, Darlington. Capacity 90 m.g. per week	Paterson Eng. Co., Ltd. ; others not yet placed	511,531	1951	—
		Long Newton booster station	Not yet placed	75,000	1951	—
Alcester R.D.C.	J. D. & D. M. Watson	Mains and reservoirs	Ankerdine (Public Works), Ltd.	126,000	Jan., 1951	—
Rugby R.D.C.	Ditto	Various water supply schemes	United Kingdom Constr. & Eng. Co., Ltd. ; others not yet let	36,000	1950	—
Warwick R.D.C.	Ditto	Various water supply schemes	G. Lines & Sons, Ltd.; J. R. E. Taylor (Contractors), Ltd.	33,000	Aug., 1950	—
ABROAD						
Saudi Arabian Government	D. Balfour & Sons	Pipe-line 60 miles and reservoir	Misr Concrete Development Co.	750,000	Dec., 1946	—

Title of scheme and/or purchasing authority	Consulting engineers or supervising authority	Nature of scheme and notes	Main contractors	Estimated cost	Date of starting	Date of completion
		WATER SUPPLY (*continued*)		£		
ABROAD						
Magadi Soda Co.	D. Balfour & Sons... ...	Pipe-line 22 miles, treatment plant and reservoir	Not yet let	175,000	—	—
Colombo Municipality : Kalatuwawa Water Supply	Binnie, Deacon & Gourley	Concrete dam 70ft high, 1200ft long ; two earthen embankments and other works ; reservoir capacity 3385 m.g.	Direct labour	500,000	1949	—
		Treatment plant equipment, 20 m.g.d.	Paterson Eng. Co., Ltd.	105,000	1950	—
Lusaka (Northern Rhodesia) Crown Agents	Ditto	Two bore-holes, 18in rising main, water tower (300,000 galls.) and distribution system, 2½ m.g.d.	John Laing & Son, Ltd.; John Howard & Co. (Africa), Ltd.	127,000	1950	—
		Steel Pipes	Stewarts & Lloyds, Ltd.	116,000	1950	—
Bore-holes in Chad Basin: Govt. of Nigeria	Crown Agents	Deepening one existing and drilling two new bore-holes	Richard Timmins & Co., Ltd.	120,000	Nov., 1948	1951
Municipality of Tehran : Iran	Sir Alexander Gibb & Partners	Piped water supply to city of Tehran	Not yet settled ...	8,000,000	1949	—
Shiraz Water Supply Co., Shiraz, Iran	Ditto	Piped water supply to town of Shiraz	Local contractors ...	400,000	June, 1948	—
Govt. of Tanganyika ...	Ditto	Piped water supply to town of Dar-es-Salaam ...	Mowlems (Africa), Ltd. ; Candy Filter Co. ; W. H. Allen Son & Co.	500,000	1950	—
Nairobi City Council ...	Howard Humphreys & Sons	Ruiru dam	W. & C. French, Ltd.	300,000	Aug., 1948	Apr., 1950
		Sasumua dam	Equator Roads & Civil Eng., Ltd., and others	700,000	Nov., 1950	1953
		Pipe-line materials	Stewarts & Lloyds ; Glenfield & Kennedy	131,000	1951	—
San Fernando Borough Council	Ditto	Service reservoir	Not yet settled ...	70,000	1951	—
Trinidad Government ...	Ditto	Caura treatment plant	Direct labour	80,000	—	1951
		Tobago dam and treatment plant	Ditto	225,000	1950	1951
Nyasaland Govt.	Scott & Wilson	Earth dam, purification works, pipe-lines, Blantyre-Limbe supply	Not yet let	250,000	Apr., 1951	Dec., 1952
Anglo-Iranian Oil Co., Ltd.	J. D. & D. M. Watson ...	Purification plant, pumping station, mains and bulk storage at Abadan	Direct labour	1,000,000	Nov., 1948	—

Printed in Great Britain
by George Reveirs, Ltd.,
10-12, Rosebery Avenue,
London - - E.C.1